



ENGINEERING STATEMENT
OF
BENJAMIN L. PIDEK, P.E.
IN SUPPORT OF
APPLICATION FOR CONSTRUCTION PERMIT
POST-INCENTIVE AUCTION ASSIGNMENT FACILITY
WQLN
ERIE, PA

Background

Public Broadcasting of Northwest Pennsylvania, Inc (PBNP) is the licensee of WQLN, located at Erie, PA, which is presently authorized to operate its digital facility on Channel 50 with the following parameters:

Pre-Incentive Auction Facility (Ch. 50)

Coordinates: 42° 02' 34" N (NAD27)
80° 03' 56" W
ERP: 300.0 kW (DA)
RCAMSL: 608.3m

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WQLN has been assigned Ch. 27 for its post-incentive auction facility with the following parameters:

Post-Incentive Auction Facility (Ch. 27)

Coordinates: 42° 02' 34" N (NAD27)
80° 03' 56" W
ERP: 192.0 kW (DA)
RCAMSL: 608.3m

Antenna System and Tower

The existing top-mounted directional WQLN Ch. 50 antenna (Dielectric TFU-13JTT/VP-R 4C170) is coaxial slot antenna that is channel specific and not usable on Ch. 27. PBNP intends to replace the existing top-mounted antenna with a new directional coaxial slot antenna for Ch. 27 (Dielectric TFU-10GTH/VP-R 4C170). The azimuth and elevation patterns and dBk table for the proposed antenna have been attached to the application.

The replacement of the top-mounted antenna will not result in a change in the overall height of the structure; therefore, neither notification to the FAA nor a modification to the ASR (#1001555) is necessary.

The current Ch. 50 antenna is elliptically polarized and the new Ch. 27 antenna will also be elliptically polarized. The vertically polarized radiation will not exceed the horizontally polarized component in any azimuth.

The new Ch. 27 antenna will have a center of radiation of 608.7m AMSL (with a calculated HAAT of 277.7m) which is 0.5m higher than the radiation center height of the assigned repack facility parameters (608.3m AMSL). To offset the 0.5m increase in the height of the antenna

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radiation center, PBNP proposes to decrease the WQLN ERP from the assigned 192 kW to 191 kW. The proposed parameters of the WQLN post-repack facility will not extend the noise-limited service contour of the facility beyond the noise-limited contour of its assigned post-incentive auction facility in any direction.

Table 1, attached hereto, compares the calculated distances to the contour in every azimuth for both the assigned (baseline) facility and the proposed facility. The data comes from output files generated by the FCC TVStudy software for the contours of the assigned repack facility parameters and the proposed WQLN facility parameters. As can be seen from the table, the maximum difference between the two calculated contours is a de minimis 0.02 km (0.02%), effectively showing that there are no azimuths where the noise-limited contour of the proposed facility is predicted to exceed the noise-limited contour of the assigned (baseline) facility.

Coverage

The entire principal community of Erie, PA is well within the predicted F(50,90) 48 dBu contour based on the proposed directional 191 kW ERP.

Interference

PBNP is not seeking to expand the WQLN noise-limited service contour beyond the noise-limited contour of its assigned post-incentive auction facility in any direction; therefore, no interference analysis is required to be submitted with this application.

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Environmental/RFR

This report addresses only the conditions specified in 47CFR1.1307 that deal with Radio Frequency Radiation. Any other non-RFR conditions that might require the preparation of an EA are beyond the scope of this report; since the structure is existing and registered, such conditions should not be an issue requiring further consideration.

The location of the proposed post-incentive auction facility is assumed to currently be “in compliance” with FCC guidelines for human exposure to RFR (as defined in OET-65). The worst case ground level RFR contributed to the site by this proposal in public areas is calculated to be 0.003287 mW/cm², which is less than 5% of the MPE for public exposure (0.367333 mW/cm²) at Ch. 27 (548-554 MHz). The contribution to the overall RFR from the proposed facility is negligible and, therefore, the site will remain “in compliance” with FCC guidelines.

PBNP agrees to comply with the Commission’s requirements regarding power adjustments or cessation of operation as may be necessary to ensure a compliant environment for worker access. Workers will be trained on RFR issues and encouraged to wear personal RFR monitors when on the structure. The tower base is enclosed by a locked security fence and appropriate signage warning of potential RFR hazards is posted.

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Certification

I hereby certify that the foregoing report or statement was prepared by me but may include work performed by others under my supervision or direction. The statements of fact contained therein are believed to be true and correct based on personal knowledge, information and belief unless otherwise stated; with respect to facts not known of my own personal knowledge, I believe them to be true and correct based on their origin from sources known to me to be generally reliable and accurate. I have prepared this document with due care and in accordance with applicable standards of professional practice.

A handwritten signature in black ink, appearing to read "B. Pidek", written over a horizontal line.

Benjamin L. Pidek, P.E.
June 28, 2017

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Table 1 - Distance to Noise-Limited Contour (NLC) Comparison
Assigned Post-Incentive Auction Facility vs. Proposed Facility

Post-Incentive Auction Assigned Facility

ERP: 192 kW
 RCAMSL: 608.3 m
 HAAT: 277.6 m

Proposed Facility

ERP: 191 kW
 RCAMSL: 608.7 m
 HAAT: 277.7 m

Assigned Repack Baseline .csv File Data**Proposed Facility .csv File Data (tvixcontour.csv)**

| Azimuth (deg) | Distance to NLC (km) | Latitude | Longitude | HAAT (m) | ERP (dBk) | | Azimuth (deg) | Distance to NLC (km) | Latitude | Longitude | HAAT (m) | ERP (dBk) | Difference (km) |
|------------------|-------------------------|----------|-----------|-------------|--------------|--|------------------|-------------------------|----------|-----------|-------------|--------------|--------------------|
| 0 | 67.74 | 42.65231 | 80.06533 | 389.86 | 6.58 | | 0 | 67.74 | 42.65 | 80.07 | 390.26 | 6.56 | 0.00 |
| 1 | 67.68 | 42.65161 | 80.05089 | 387.08 | 6.66 | | 1 | 67.67 | 42.65 | 80.05 | 387.48 | 6.63 | -0.01 |
| 2 | 67.61 | 42.65072 | 80.03647 | 384.30 | 6.73 | | 2 | 67.60 | 42.65 | 80.04 | 384.70 | 6.71 | -0.01 |
| 3 | 67.54 | 42.64965 | 80.0221 | 381.53 | 6.80 | | 3 | 67.53 | 42.65 | 80.02 | 381.93 | 6.78 | -0.01 |
| 4 | 67.47 | 42.64839 | 80.00776 | 378.75 | 6.87 | | 4 | 67.47 | 42.65 | 80.01 | 379.15 | 6.85 | 0.00 |
| 5 | 67.40 | 42.64693 | 79.99348 | 375.97 | 6.94 | | 5 | 67.40 | 42.65 | 79.99 | 376.37 | 6.92 | 0.00 |
| 6 | 67.33 | 42.64527 | 79.97925 | 373.19 | 7.01 | | 6 | 67.33 | 42.65 | 79.98 | 373.59 | 6.99 | 0.00 |
| 7 | 67.26 | 42.64341 | 79.96508 | 370.41 | 7.08 | | 7 | 67.25 | 42.64 | 79.97 | 370.81 | 7.06 | -0.01 |
| 8 | 67.19 | 42.64137 | 79.95097 | 367.64 | 7.15 | | 8 | 67.18 | 42.64 | 79.95 | 368.04 | 7.13 | -0.01 |
| 9 | 67.11 | 42.63913 | 79.93694 | 364.86 | 7.22 | | 9 | 67.11 | 42.64 | 79.94 | 365.26 | 7.20 | 0.00 |
| 10 | 67.04 | 42.6367 | 79.92297 | 362.08 | 7.29 | | 10 | 67.03 | 42.64 | 79.92 | 362.48 | 7.26 | -0.01 |
| 11 | 67.16 | 42.63583 | 79.90863 | 359.30 | 7.50 | | 11 | 67.15 | 42.64 | 79.91 | 359.70 | 7.48 | -0.01 |
| 12 | 67.27 | 42.63469 | 79.8943 | 356.53 | 7.70 | | 12 | 67.26 | 42.63 | 79.89 | 356.93 | 7.68 | -0.01 |
| 13 | 67.37 | 42.63328 | 79.88 | 353.75 | 7.90 | | 13 | 67.37 | 42.63 | 79.88 | 354.15 | 7.88 | 0.00 |
| 14 | 67.47 | 42.63161 | 79.86575 | 350.97 | 8.10 | | 14 | 67.46 | 42.63 | 79.87 | 351.37 | 8.08 | -0.01 |
| 15 | 67.55 | 42.62969 | 79.85154 | 348.19 | 8.29 | | 15 | 67.55 | 42.63 | 79.85 | 348.59 | 8.27 | 0.00 |
| 16 | 67.63 | 42.62752 | 79.83739 | 345.41 | 8.48 | | 16 | 67.63 | 42.63 | 79.84 | 345.81 | 8.46 | 0.00 |
| 17 | 67.70 | 42.62509 | 79.8233 | 342.64 | 8.66 | | 17 | 67.70 | 42.63 | 79.82 | 343.04 | 8.64 | 0.00 |
| 18 | 67.77 | 42.62242 | 79.80929 | 339.86 | 8.84 | | 18 | 67.76 | 42.62 | 79.81 | 340.26 | 8.82 | -0.01 |
| 19 | 67.83 | 42.61951 | 79.79535 | 337.08 | 9.02 | | 19 | 67.82 | 42.62 | 79.80 | 337.48 | 9.00 | -0.01 |
| 20 | 67.88 | 42.61637 | 79.7815 | 334.30 | 9.19 | | 20 | 67.88 | 42.62 | 79.78 | 334.70 | 9.17 | 0.00 |
| 21 | 68.06 | 42.61412 | 79.76715 | 331.52 | 9.47 | | 21 | 68.06 | 42.61 | 79.77 | 331.92 | 9.44 | 0.00 |
| 22 | 68.23 | 42.61155 | 79.75289 | 328.75 | 9.73 | | 22 | 68.22 | 42.61 | 79.75 | 329.15 | 9.71 | -0.01 |
| 23 | 68.38 | 42.60869 | 79.73872 | 325.97 | 9.98 | | 23 | 68.38 | 42.61 | 79.74 | 326.37 | 9.96 | 0.00 |
| 24 | 68.52 | 42.60553 | 79.72466 | 323.19 | 10.23 | | 24 | 68.52 | 42.61 | 79.72 | 323.59 | 10.21 | 0.00 |
| 25 | 68.65 | 42.60209 | 79.7107 | 320.41 | 10.47 | | 25 | 68.65 | 42.60 | 79.71 | 320.81 | 10.45 | 0.00 |
| 26 | 68.77 | 42.59837 | 79.69686 | 317.63 | 10.71 | | 26 | 68.77 | 42.60 | 79.70 | 318.03 | 10.69 | 0.00 |
| 27 | 68.88 | 42.59439 | 79.68315 | 314.86 | 10.94 | | 27 | 68.88 | 42.59 | 79.68 | 315.26 | 10.91 | 0.00 |
| 28 | 68.98 | 42.59015 | 79.66957 | 312.08 | 11.16 | | 28 | 68.98 | 42.59 | 79.67 | 312.48 | 11.14 | 0.00 |
| 29 | 69.07 | 42.58565 | 79.65613 | 309.30 | 11.38 | | 29 | 69.07 | 42.59 | 79.66 | 309.70 | 11.35 | 0.00 |
| 30 | 69.16 | 42.5809 | 79.64283 | 306.52 | 11.59 | | 30 | 69.16 | 42.58 | 79.64 | 306.92 | 11.57 | 0.00 |
| 31 | 69.31 | 42.57651 | 79.6292 | 303.74 | 11.86 | | 31 | 69.31 | 42.58 | 79.63 | 304.14 | 11.83 | 0.00 |
| 32 | 69.45 | 42.57184 | 79.61573 | 300.97 | 12.12 | | 32 | 69.45 | 42.57 | 79.62 | 301.37 | 12.09 | 0.00 |
| 33 | 69.58 | 42.56689 | 79.60243 | 298.19 | 12.37 | | 33 | 69.58 | 42.57 | 79.60 | 298.59 | 12.35 | 0.00 |
| 34 | 69.69 | 42.56168 | 79.5893 | 295.41 | 12.62 | | 34 | 69.69 | 42.56 | 79.59 | 295.81 | 12.59 | 0.00 |
| 35 | 69.80 | 42.5562 | 79.57636 | 292.63 | 12.85 | | 35 | 69.80 | 42.56 | 79.58 | 293.03 | 12.83 | 0.00 |
| 36 | 69.89 | 42.55048 | 79.5636 | 289.85 | 13.09 | | 36 | 69.89 | 42.55 | 79.56 | 290.25 | 13.06 | 0.00 |
| 37 | 69.98 | 42.54452 | 79.55104 | 287.08 | 13.31 | | 37 | 69.98 | 42.54 | 79.55 | 287.48 | 13.29 | 0.00 |
| 38 | 70.06 | 42.53833 | 79.53867 | 284.30 | 13.53 | | 38 | 70.06 | 42.54 | 79.54 | 284.70 | 13.51 | 0.00 |
| 39 | 70.13 | 42.53192 | 79.5265 | 281.52 | 13.75 | | 39 | 70.13 | 42.53 | 79.53 | 281.92 | 13.73 | 0.00 |
| 40 | 70.19 | 42.52528 | 79.51454 | 278.74 | 13.96 | | 40 | 70.19 | 42.53 | 79.51 | 279.14 | 13.94 | 0.00 |
| 41 | 70.30 | 42.51883 | 79.50233 | 275.97 | 14.21 | | 41 | 70.30 | 42.52 | 79.50 | 276.37 | 14.19 | 0.00 |
| 42 | 70.41 | 42.51214 | 79.49033 | 273.19 | 14.46 | | 42 | 70.41 | 42.51 | 79.49 | 273.59 | 14.43 | 0.00 |
| 43 | 70.50 | 42.50523 | 79.47856 | 270.41 | 14.69 | | 43 | 70.50 | 42.51 | 79.48 | 270.81 | 14.67 | 0.00 |
| 44 | 70.58 | 42.4981 | 79.46702 | 267.63 | 14.93 | | 44 | 70.59 | 42.50 | 79.47 | 268.03 | 14.90 | 0.01 |
| 45 | 70.66 | 42.49076 | 79.45571 | 264.85 | 15.15 | | 45 | 70.66 | 42.49 | 79.46 | 265.25 | 15.13 | 0.00 |
| 46 | 70.82 | 42.48378 | 79.44382 | 263.39 | 15.37 | | 46 | 70.82 | 42.48 | 79.44 | 263.79 | 15.35 | 0.00 |
| 47 | 70.98 | 42.4766 | 79.43214 | 261.92 | 15.59 | | 47 | 70.98 | 42.48 | 79.43 | 262.32 | 15.56 | 0.00 |
| 48 | 71.12 | 42.4692 | 79.42067 | 260.46 | 15.80 | | 48 | 71.12 | 42.47 | 79.42 | 260.86 | 15.77 | 0.00 |
| 49 | 71.26 | 42.46161 | 79.40942 | 259.00 | 16.00 | | 49 | 71.27 | 42.46 | 79.41 | 259.40 | 15.98 | 0.01 |
| 50 | 71.40 | 42.45382 | 79.39839 | 257.53 | 16.20 | | 50 | 71.40 | 42.45 | 79.40 | 257.93 | 16.18 | 0.00 |
| 51 | 71.57 | 42.44607 | 79.38718 | 256.07 | 16.43 | | 51 | 71.57 | 42.45 | 79.39 | 256.47 | 16.41 | 0.00 |
| 52 | 71.73 | 42.43812 | 79.37622 | 254.60 | 16.65 | | 52 | 71.74 | 42.44 | 79.38 | 255.00 | 16.63 | 0.01 |

WQLN-TV (Ch. 27 at Erie, PA)

**Table 1 - Distance to Noise-Limited Contour (NLC) Comparison
Assigned Post-Incentive Auction Facility vs. Proposed Facility**

Assigned Repack Baseline .csv File Data

Proposed Facility .csv File Data (tvixcontour.csv)

| Azimuth (deg) | Distance to NLC (km) | Latitude | Longitude | HAAT (m) | ERP (dBk) | | Azimuth (deg) | Distance to NLC (km) | Latitude | Longitude | HAAT (m) | ERP (dBk) | Difference (km) |
|------------------|-------------------------|----------|-----------|-------------|--------------|--|------------------|-------------------------|----------|-----------|-------------|--------------|--------------------|
| 53 | 71.89 | 42.42996 | 79.3655 | 253.14 | 16.87 | | 53 | 71.89 | 42.43 | 79.37 | 253.54 | 16.85 | 0.00 |
| 54 | 72.04 | 42.42162 | 79.35501 | 251.67 | 17.09 | | 54 | 72.04 | 42.42 | 79.36 | 252.07 | 17.06 | 0.00 |
| 55 | 72.19 | 42.41309 | 79.34477 | 250.21 | 17.29 | | 55 | 72.19 | 42.41 | 79.34 | 250.61 | 17.27 | 0.00 |
| 56 | 72.32 | 42.40438 | 79.33478 | 248.75 | 17.50 | | 56 | 72.32 | 42.40 | 79.33 | 249.15 | 17.47 | 0.00 |
| 57 | 72.46 | 42.3955 | 79.32504 | 247.28 | 17.70 | | 57 | 72.46 | 42.40 | 79.33 | 247.68 | 17.67 | 0.00 |
| 58 | 72.58 | 42.38645 | 79.31555 | 245.82 | 17.89 | | 58 | 72.58 | 42.39 | 79.32 | 246.22 | 17.87 | 0.00 |
| 59 | 72.71 | 42.37724 | 79.30632 | 244.35 | 18.08 | | 59 | 72.71 | 42.38 | 79.31 | 244.75 | 18.06 | 0.00 |
| 60 | 72.82 | 42.36788 | 79.29734 | 242.89 | 18.26 | | 60 | 72.83 | 42.37 | 79.30 | 243.29 | 18.24 | 0.01 |
| 61 | 72.94 | 42.35838 | 79.28858 | 241.42 | 18.45 | | 61 | 72.94 | 42.36 | 79.29 | 241.82 | 18.43 | 0.00 |
| 62 | 73.05 | 42.34873 | 79.2801 | 239.96 | 18.63 | | 62 | 73.06 | 42.35 | 79.28 | 240.36 | 18.61 | 0.01 |
| 63 | 73.16 | 42.33894 | 79.27189 | 238.49 | 18.81 | | 63 | 73.16 | 42.34 | 79.27 | 238.89 | 18.79 | 0.00 |
| 64 | 73.26 | 42.32901 | 79.26396 | 237.03 | 18.99 | | 64 | 73.27 | 42.33 | 79.26 | 237.43 | 18.96 | 0.01 |
| 65 | 73.36 | 42.31894 | 79.25632 | 235.57 | 19.16 | | 65 | 73.36 | 42.32 | 79.26 | 235.97 | 19.14 | 0.00 |
| 66 | 73.46 | 42.30875 | 79.24895 | 234.10 | 19.33 | | 66 | 73.46 | 42.31 | 79.25 | 234.50 | 19.30 | 0.00 |
| 67 | 73.54 | 42.29843 | 79.24187 | 232.64 | 19.49 | | 67 | 73.55 | 42.30 | 79.24 | 233.04 | 19.47 | 0.01 |
| 68 | 73.63 | 42.288 | 79.23507 | 231.17 | 19.65 | | 68 | 73.63 | 42.29 | 79.24 | 231.57 | 19.63 | 0.00 |
| 69 | 73.71 | 42.27746 | 79.22857 | 229.71 | 19.81 | | 69 | 73.71 | 42.28 | 79.23 | 230.11 | 19.79 | 0.00 |
| 70 | 73.79 | 42.26681 | 79.22235 | 228.24 | 19.97 | | 70 | 73.79 | 42.27 | 79.22 | 228.64 | 19.94 | 0.00 |
| 71 | 73.84 | 42.256 | 79.21663 | 226.78 | 20.11 | | 71 | 73.85 | 42.26 | 79.22 | 227.18 | 20.08 | 0.01 |
| 72 | 73.89 | 42.24511 | 79.2112 | 225.32 | 20.24 | | 72 | 73.90 | 42.25 | 79.21 | 225.72 | 20.22 | 0.01 |
| 73 | 73.94 | 42.23414 | 79.20607 | 223.85 | 20.37 | | 73 | 73.95 | 42.23 | 79.21 | 224.25 | 20.35 | 0.01 |
| 74 | 73.99 | 42.22309 | 79.20122 | 222.39 | 20.51 | | 74 | 73.99 | 42.22 | 79.20 | 222.79 | 20.48 | 0.00 |
| 75 | 74.04 | 42.21196 | 79.19666 | 220.92 | 20.64 | | 75 | 74.04 | 42.21 | 79.20 | 221.32 | 20.61 | 0.00 |
| 76 | 74.08 | 42.20076 | 79.19239 | 219.46 | 20.76 | | 76 | 74.08 | 42.20 | 79.19 | 219.86 | 20.74 | 0.00 |
| 77 | 74.12 | 42.1895 | 79.18841 | 217.99 | 20.89 | | 77 | 74.12 | 42.19 | 79.19 | 218.39 | 20.87 | 0.00 |
| 78 | 74.15 | 42.17818 | 79.18473 | 216.53 | 21.01 | | 78 | 74.16 | 42.18 | 79.18 | 216.93 | 20.99 | 0.01 |
| 79 | 74.19 | 42.1668 | 79.18134 | 215.06 | 21.14 | | 79 | 74.19 | 42.17 | 79.18 | 215.46 | 21.11 | 0.00 |
| 80 | 74.22 | 42.15538 | 79.17825 | 213.60 | 21.26 | | 80 | 74.22 | 42.16 | 79.18 | 214.00 | 21.23 | 0.00 |
| 81 | 74.22 | 42.14386 | 79.17583 | 212.14 | 21.35 | | 81 | 74.22 | 42.14 | 79.18 | 212.54 | 21.33 | 0.00 |
| 82 | 74.22 | 42.13231 | 79.1737 | 210.67 | 21.44 | | 82 | 74.22 | 42.13 | 79.17 | 211.07 | 21.42 | 0.00 |
| 83 | 74.21 | 42.12074 | 79.17185 | 209.21 | 21.53 | | 83 | 74.22 | 42.12 | 79.17 | 209.61 | 21.51 | 0.01 |
| 84 | 74.21 | 42.10915 | 79.17029 | 207.74 | 21.62 | | 84 | 74.21 | 42.11 | 79.17 | 208.14 | 21.60 | 0.00 |
| 85 | 74.20 | 42.09753 | 79.16902 | 206.28 | 21.71 | | 85 | 74.21 | 42.10 | 79.17 | 206.68 | 21.69 | 0.01 |
| 86 | 74.20 | 42.08591 | 79.16803 | 204.81 | 21.80 | | 86 | 74.20 | 42.09 | 79.17 | 205.21 | 21.77 | 0.00 |
| 87 | 74.19 | 42.07427 | 79.16732 | 203.35 | 21.88 | | 87 | 74.19 | 42.07 | 79.17 | 203.75 | 21.86 | 0.00 |
| 88 | 74.18 | 42.06262 | 79.16691 | 201.89 | 21.97 | | 88 | 74.18 | 42.06 | 79.17 | 202.29 | 21.95 | 0.00 |
| 89 | 74.17 | 42.05098 | 79.16677 | 200.42 | 22.05 | | 89 | 74.18 | 42.05 | 79.17 | 200.82 | 22.03 | 0.01 |
| 90 | 74.16 | 42.03933 | 79.16692 | 198.96 | 22.14 | | 90 | 74.17 | 42.04 | 79.17 | 199.36 | 22.11 | 0.01 |
| 91 | 74.24 | 42.02767 | 79.16626 | 199.18 | 22.19 | | 91 | 74.24 | 42.03 | 79.17 | 199.58 | 22.17 | 0.00 |
| 92 | 74.32 | 42.01599 | 79.16588 | 199.39 | 22.24 | | 92 | 74.32 | 42.02 | 79.17 | 199.79 | 22.22 | 0.00 |
| 93 | 74.40 | 42.00429 | 79.16577 | 199.61 | 22.29 | | 93 | 74.40 | 42.00 | 79.17 | 200.01 | 22.27 | 0.00 |
| 94 | 74.48 | 41.99258 | 79.16595 | 199.83 | 22.35 | | 94 | 74.48 | 41.99 | 79.17 | 200.23 | 22.32 | 0.00 |
| 95 | 74.56 | 41.98086 | 79.1664 | 200.05 | 22.40 | | 95 | 74.56 | 41.98 | 79.17 | 200.45 | 22.37 | 0.00 |
| 96 | 74.64 | 41.96914 | 79.16713 | 200.27 | 22.45 | | 96 | 74.64 | 41.97 | 79.17 | 200.67 | 22.42 | 0.00 |
| 97 | 74.71 | 41.95742 | 79.16815 | 200.49 | 22.50 | | 97 | 74.72 | 41.96 | 79.17 | 200.89 | 22.48 | 0.01 |
| 98 | 74.79 | 41.9457 | 79.16944 | 200.71 | 22.55 | | 98 | 74.79 | 41.95 | 79.17 | 201.11 | 22.53 | 0.00 |
| 99 | 74.87 | 41.93399 | 79.17102 | 200.92 | 22.60 | | 99 | 74.87 | 41.93 | 79.17 | 201.32 | 22.58 | 0.00 |
| 100 | 74.94 | 41.92229 | 79.17288 | 201.14 | 22.65 | | 100 | 74.95 | 41.92 | 79.17 | 201.54 | 22.63 | 0.01 |
| 101 | 74.98 | 41.91067 | 79.17546 | 201.36 | 22.67 | | 101 | 74.99 | 41.91 | 79.18 | 201.76 | 22.64 | 0.01 |
| 102 | 75.02 | 41.89908 | 79.17831 | 201.58 | 22.69 | | 102 | 75.03 | 41.90 | 79.18 | 201.98 | 22.66 | 0.01 |
| 103 | 75.06 | 41.88752 | 79.18144 | 201.80 | 22.70 | | 103 | 75.06 | 41.89 | 79.18 | 202.20 | 22.68 | 0.00 |
| 104 | 75.10 | 41.876 | 79.18484 | 202.02 | 22.72 | | 104 | 75.10 | 41.88 | 79.18 | 202.42 | 22.70 | 0.00 |
| 105 | 75.14 | 41.86452 | 79.18851 | 202.24 | 22.74 | | 105 | 75.14 | 41.86 | 79.19 | 202.64 | 22.72 | 0.00 |
| 106 | 75.18 | 41.85309 | 79.19244 | 202.45 | 22.76 | | 106 | 75.18 | 41.85 | 79.19 | 202.85 | 22.74 | 0.00 |
| 107 | 75.22 | 41.8417 | 79.19665 | 202.67 | 22.78 | | 107 | 75.22 | 41.84 | 79.20 | 203.07 | 22.76 | 0.00 |
| 108 | 75.26 | 41.83036 | 79.20112 | 202.89 | 22.80 | | 108 | 75.26 | 41.83 | 79.20 | 203.29 | 22.77 | 0.00 |
| 109 | 75.30 | 41.81907 | 79.20586 | 203.11 | 22.81 | | 109 | 75.30 | 41.82 | 79.21 | 203.51 | 22.79 | 0.00 |
| 110 | 75.34 | 41.80784 | 79.21086 | 203.33 | 22.83 | | 110 | 75.34 | 41.81 | 79.21 | 203.73 | 22.81 | 0.00 |
| 111 | 75.34 | 41.79679 | 79.21652 | 203.55 | 22.82 | | 111 | 75.34 | 41.80 | 79.22 | 203.95 | 22.80 | 0.00 |
| 112 | 75.34 | 41.78581 | 79.22243 | 203.76 | 22.81 | | 112 | 75.35 | 41.79 | 79.22 | 204.16 | 22.79 | 0.01 |

WQLN-TV (Ch. 27 at Erie, PA)

**Table 1 - Distance to Noise-Limited Contour (NLC) Comparison
Assigned Post-Incentive Auction Facility vs. Proposed Facility**

Assigned Repack Baseline .csv File Data

Proposed Facility .csv File Data (tvixcontour.csv)

| Azimuth (deg) | Distance to NLC (km) | Latitude | Longitude | HAAT (m) | ERP (dBk) | | Azimuth (deg) | Distance to NLC (km) | Latitude | Longitude | HAAT (m) | ERP (dBk) | Difference (km) |
|------------------|-------------------------|----------|-----------|-------------|--------------|--|------------------|-------------------------|----------|-----------|-------------|--------------|--------------------|
| 113 | 75.35 | 41.77492 | 79.2286 | 203.98 | 22.80 | | 113 | 75.35 | 41.77 | 79.23 | 204.38 | 22.78 | 0.00 |
| 114 | 75.35 | 41.7641 | 79.23502 | 204.20 | 22.79 | | 114 | 75.35 | 41.76 | 79.23 | 204.60 | 22.77 | 0.00 |
| 115 | 75.36 | 41.75336 | 79.2417 | 204.42 | 22.78 | | 115 | 75.36 | 41.75 | 79.24 | 204.82 | 22.76 | 0.00 |
| 116 | 75.36 | 41.74272 | 79.24862 | 204.64 | 22.77 | | 116 | 75.36 | 41.74 | 79.25 | 205.04 | 22.75 | 0.00 |
| 117 | 75.36 | 41.73216 | 79.25579 | 204.86 | 22.76 | | 117 | 75.37 | 41.73 | 79.26 | 205.26 | 22.74 | 0.01 |
| 118 | 75.37 | 41.7217 | 79.2632 | 205.08 | 22.75 | | 118 | 75.37 | 41.72 | 79.26 | 205.48 | 22.73 | 0.00 |
| 119 | 75.37 | 41.71133 | 79.27085 | 205.29 | 22.74 | | 119 | 75.37 | 41.71 | 79.27 | 205.69 | 22.72 | 0.00 |
| 120 | 75.38 | 41.70107 | 79.27874 | 205.51 | 22.73 | | 120 | 75.38 | 41.70 | 79.28 | 205.91 | 22.71 | 0.00 |
| 121 | 75.36 | 41.69101 | 79.2871 | 205.73 | 22.70 | | 121 | 75.36 | 41.69 | 79.29 | 206.13 | 22.68 | 0.00 |
| 122 | 75.34 | 41.68107 | 79.29569 | 205.95 | 22.67 | | 122 | 75.34 | 41.68 | 79.30 | 206.35 | 22.65 | 0.00 |
| 123 | 75.32 | 41.67125 | 79.30451 | 206.17 | 22.64 | | 123 | 75.32 | 41.67 | 79.30 | 206.57 | 22.62 | 0.00 |
| 124 | 75.30 | 41.66154 | 79.31355 | 206.39 | 22.61 | | 124 | 75.30 | 41.66 | 79.31 | 206.79 | 22.59 | 0.00 |
| 125 | 75.28 | 41.65195 | 79.32281 | 206.61 | 22.58 | | 125 | 75.28 | 41.65 | 79.32 | 207.01 | 22.56 | 0.00 |
| 126 | 75.26 | 41.64249 | 79.33229 | 206.82 | 22.55 | | 126 | 75.27 | 41.64 | 79.33 | 207.22 | 22.53 | 0.01 |
| 127 | 75.24 | 41.63316 | 79.34199 | 207.04 | 22.52 | | 127 | 75.25 | 41.63 | 79.34 | 207.44 | 22.50 | 0.01 |
| 128 | 75.22 | 41.62395 | 79.3519 | 207.26 | 22.49 | | 128 | 75.23 | 41.62 | 79.35 | 207.66 | 22.47 | 0.01 |
| 129 | 75.20 | 41.61488 | 79.36202 | 207.48 | 22.46 | | 129 | 75.21 | 41.61 | 79.36 | 207.88 | 22.44 | 0.01 |
| 130 | 75.18 | 41.60595 | 79.37234 | 207.70 | 22.43 | | 130 | 75.19 | 41.61 | 79.37 | 208.10 | 22.41 | 0.01 |
| 131 | 75.16 | 41.59715 | 79.38288 | 207.92 | 22.40 | | 131 | 75.17 | 41.60 | 79.38 | 208.32 | 22.38 | 0.01 |
| 132 | 75.14 | 41.5885 | 79.39362 | 208.14 | 22.37 | | 132 | 75.15 | 41.59 | 79.39 | 208.54 | 22.35 | 0.01 |
| 133 | 75.12 | 41.58 | 79.40455 | 208.35 | 22.34 | | 133 | 75.12 | 41.58 | 79.40 | 208.75 | 22.32 | 0.00 |
| 134 | 75.10 | 41.57164 | 79.41567 | 208.57 | 22.31 | | 134 | 75.10 | 41.57 | 79.42 | 208.97 | 22.29 | 0.00 |
| 135 | 75.08 | 41.56342 | 79.42698 | 208.79 | 22.28 | | 135 | 75.08 | 41.56 | 79.43 | 209.19 | 22.25 | 0.00 |
| 136 | 74.99 | 41.5558 | 79.43902 | 208.14 | 22.25 | | 136 | 74.99 | 41.56 | 79.44 | 208.54 | 22.22 | 0.00 |
| 137 | 74.90 | 41.54833 | 79.45123 | 207.48 | 22.21 | | 137 | 74.91 | 41.55 | 79.45 | 207.88 | 22.19 | 0.01 |
| 138 | 74.82 | 41.54104 | 79.4636 | 206.82 | 22.18 | | 138 | 74.82 | 41.54 | 79.46 | 207.22 | 22.16 | 0.00 |
| 139 | 74.73 | 41.53393 | 79.47611 | 206.17 | 22.15 | | 139 | 74.73 | 41.53 | 79.48 | 206.57 | 22.13 | 0.00 |
| 140 | 74.64 | 41.52698 | 79.48878 | 205.51 | 22.12 | | 140 | 74.64 | 41.53 | 79.49 | 205.91 | 22.10 | 0.00 |
| 141 | 74.57 | 41.52003 | 79.5014 | 204.85 | 22.11 | | 141 | 74.58 | 41.52 | 79.50 | 205.25 | 22.08 | 0.01 |
| 142 | 74.51 | 41.51326 | 79.51417 | 204.20 | 22.10 | | 142 | 74.51 | 41.51 | 79.51 | 204.60 | 22.07 | 0.00 |
| 143 | 74.45 | 41.50665 | 79.52708 | 203.54 | 22.08 | | 143 | 74.45 | 41.51 | 79.53 | 203.94 | 22.06 | 0.00 |
| 144 | 74.38 | 41.50023 | 79.54013 | 202.89 | 22.07 | | 144 | 74.39 | 41.50 | 79.54 | 203.29 | 22.05 | 0.01 |
| 145 | 74.32 | 41.49397 | 79.55332 | 202.23 | 22.06 | | 145 | 74.32 | 41.49 | 79.55 | 202.63 | 22.04 | 0.00 |
| 146 | 74.26 | 41.48789 | 79.56663 | 201.57 | 22.05 | | 146 | 74.26 | 41.49 | 79.57 | 201.97 | 22.03 | 0.00 |
| 147 | 74.19 | 41.48199 | 79.58007 | 200.92 | 22.04 | | 147 | 74.20 | 41.48 | 79.58 | 201.32 | 22.02 | 0.01 |
| 148 | 74.13 | 41.47627 | 79.59363 | 200.26 | 22.03 | | 148 | 74.13 | 41.48 | 79.59 | 200.66 | 22.00 | 0.00 |
| 149 | 74.07 | 41.47073 | 79.60731 | 199.61 | 22.02 | | 149 | 74.07 | 41.47 | 79.61 | 200.01 | 21.99 | 0.00 |
| 150 | 74.00 | 41.46538 | 79.6211 | 198.95 | 22.00 | | 150 | 74.01 | 41.47 | 79.62 | 199.35 | 21.98 | 0.01 |
| 151 | 73.97 | 41.45995 | 79.6348 | 198.29 | 22.02 | | 151 | 73.98 | 41.46 | 79.63 | 198.69 | 22.00 | 0.01 |
| 152 | 73.94 | 41.45469 | 79.64863 | 197.64 | 22.04 | | 152 | 73.95 | 41.45 | 79.65 | 198.04 | 22.01 | 0.01 |
| 153 | 73.91 | 41.44962 | 79.66256 | 196.98 | 22.05 | | 153 | 73.92 | 41.45 | 79.66 | 197.38 | 22.03 | 0.01 |
| 154 | 73.88 | 41.44474 | 79.67661 | 196.33 | 22.07 | | 154 | 73.89 | 41.44 | 79.68 | 196.73 | 22.05 | 0.01 |
| 155 | 73.85 | 41.44004 | 79.69076 | 195.67 | 22.09 | | 155 | 73.86 | 41.44 | 79.69 | 196.07 | 22.06 | 0.01 |
| 156 | 73.82 | 41.43552 | 79.70501 | 195.01 | 22.10 | | 156 | 73.83 | 41.44 | 79.70 | 195.41 | 22.08 | 0.01 |
| 157 | 73.79 | 41.43119 | 79.71935 | 194.36 | 22.12 | | 157 | 73.80 | 41.43 | 79.72 | 194.76 | 22.09 | 0.01 |
| 158 | 73.76 | 41.42705 | 79.73378 | 193.70 | 22.13 | | 158 | 73.76 | 41.43 | 79.73 | 194.10 | 22.11 | 0.00 |
| 159 | 73.73 | 41.4231 | 79.74831 | 193.04 | 22.15 | | 159 | 73.73 | 41.42 | 79.75 | 193.44 | 22.13 | 0.00 |
| 160 | 73.70 | 41.41934 | 79.76291 | 192.39 | 22.17 | | 160 | 73.70 | 41.42 | 79.76 | 192.79 | 22.14 | 0.00 |
| 161 | 73.68 | 41.41567 | 79.77755 | 191.73 | 22.19 | | 161 | 73.69 | 41.42 | 79.78 | 192.13 | 22.17 | 0.01 |
| 162 | 73.66 | 41.4122 | 79.79226 | 191.08 | 22.22 | | 162 | 73.67 | 41.41 | 79.79 | 191.48 | 22.19 | 0.01 |
| 163 | 73.65 | 41.40891 | 79.80705 | 190.42 | 22.24 | | 163 | 73.65 | 41.41 | 79.81 | 190.82 | 22.22 | 0.00 |
| 164 | 73.63 | 41.40583 | 79.82191 | 189.76 | 22.27 | | 164 | 73.63 | 41.41 | 79.82 | 190.16 | 22.24 | 0.00 |
| 165 | 73.61 | 41.40293 | 79.83683 | 189.11 | 22.29 | | 165 | 73.61 | 41.40 | 79.84 | 189.51 | 22.27 | 0.00 |
| 166 | 73.59 | 41.40023 | 79.85181 | 188.45 | 22.32 | | 166 | 73.59 | 41.40 | 79.85 | 188.85 | 22.29 | 0.00 |
| 167 | 73.57 | 41.39772 | 79.86685 | 187.80 | 22.34 | | 167 | 73.57 | 41.40 | 79.87 | 188.20 | 22.32 | 0.00 |
| 168 | 73.55 | 41.39542 | 79.88193 | 187.14 | 22.37 | | 168 | 73.55 | 41.40 | 79.88 | 187.54 | 22.34 | 0.00 |
| 169 | 73.53 | 41.3933 | 79.89707 | 186.48 | 22.39 | | 169 | 73.53 | 41.39 | 79.90 | 186.88 | 22.37 | 0.00 |
| 170 | 73.51 | 41.39139 | 79.91225 | 185.83 | 22.41 | | 170 | 73.52 | 41.39 | 79.91 | 186.23 | 22.39 | 0.01 |
| 171 | 73.48 | 41.38981 | 79.92749 | 185.17 | 22.43 | | 171 | 73.48 | 41.39 | 79.93 | 185.57 | 22.40 | 0.00 |
| 172 | 73.44 | 41.38843 | 79.94276 | 184.52 | 22.44 | | 172 | 73.45 | 41.39 | 79.94 | 184.92 | 22.41 | 0.01 |

WQLN-TV (Ch. 27 at Erie, PA)

Table 1 - Distance to Noise-Limited Contour (NLC) Comparison
Assigned Post-Incentive Auction Facility vs. Proposed Facility

Assigned Repack Baseline .csv File Data

Proposed Facility .csv File Data (tvixcontour.csv)

| Azimuth (deg) | Distance to NLC (km) | Latitude | Longitude | HAAT (m) | ERP (dBk) | | Azimuth (deg) | Distance to NLC (km) | Latitude | Longitude | HAAT (m) | ERP (dBk) | Difference (km) |
|------------------|-------------------------|----------|-----------|-------------|--------------|--|------------------|-------------------------|----------|-----------|-------------|--------------|--------------------|
| 173 | 73.41 | 41.38725 | 79.95805 | 183.86 | 22.45 | | 173 | 73.41 | 41.39 | 79.96 | 184.26 | 22.42 | 0.00 |
| 174 | 73.37 | 41.38627 | 79.97336 | 183.20 | 22.46 | | 174 | 73.38 | 41.39 | 79.97 | 183.60 | 22.44 | 0.01 |
| 175 | 73.34 | 41.38549 | 79.98869 | 182.55 | 22.47 | | 175 | 73.34 | 41.39 | 79.99 | 182.95 | 22.45 | 0.00 |
| 176 | 73.31 | 41.3849 | 80.00402 | 181.89 | 22.48 | | 176 | 73.31 | 41.38 | 80.00 | 182.29 | 22.46 | 0.00 |
| 177 | 73.27 | 41.38452 | 80.01935 | 181.23 | 22.49 | | 177 | 73.27 | 41.38 | 80.02 | 181.63 | 22.47 | 0.00 |
| 178 | 73.24 | 41.38434 | 80.03469 | 180.58 | 22.50 | | 178 | 73.24 | 41.38 | 80.03 | 180.98 | 22.48 | 0.00 |
| 179 | 73.20 | 41.38436 | 80.05001 | 179.92 | 22.51 | | 179 | 73.20 | 41.38 | 80.05 | 180.32 | 22.49 | 0.00 |
| 180 | 73.16 | 41.38459 | 80.06533 | 179.27 | 22.52 | | 180 | 73.17 | 41.38 | 80.07 | 179.67 | 22.50 | 0.01 |
| 181 | 73.26 | 41.38385 | 80.08066 | 180.70 | 22.51 | | 181 | 73.26 | 41.38 | 80.08 | 181.10 | 22.49 | 0.00 |
| 182 | 73.35 | 41.38333 | 80.09603 | 182.12 | 22.50 | | 182 | 73.35 | 41.38 | 80.10 | 182.52 | 22.48 | 0.00 |
| 183 | 73.44 | 41.38301 | 80.11142 | 183.55 | 22.49 | | 183 | 73.44 | 41.38 | 80.11 | 183.95 | 22.47 | 0.00 |
| 184 | 73.53 | 41.38289 | 80.12684 | 184.98 | 22.48 | | 184 | 73.53 | 41.38 | 80.13 | 185.38 | 22.46 | 0.00 |
| 185 | 73.62 | 41.38296 | 80.14227 | 186.41 | 22.47 | | 185 | 73.62 | 41.38 | 80.14 | 186.81 | 22.45 | 0.00 |
| 186 | 73.72 | 41.38323 | 80.15773 | 187.84 | 22.46 | | 186 | 73.72 | 41.38 | 80.16 | 188.24 | 22.44 | 0.00 |
| 187 | 73.81 | 41.38369 | 80.17319 | 189.27 | 22.45 | | 187 | 73.81 | 41.38 | 80.17 | 189.67 | 22.42 | 0.00 |
| 188 | 73.90 | 41.38436 | 80.18866 | 190.70 | 22.44 | | 188 | 73.90 | 41.38 | 80.19 | 191.10 | 22.41 | 0.00 |
| 189 | 73.99 | 41.38523 | 80.20413 | 192.13 | 22.43 | | 189 | 74.00 | 41.39 | 80.20 | 192.53 | 22.40 | 0.01 |
| 190 | 74.09 | 41.38629 | 80.2196 | 193.56 | 22.41 | | 190 | 74.09 | 41.39 | 80.22 | 193.96 | 22.39 | 0.00 |
| 191 | 74.17 | 41.3877 | 80.23503 | 194.99 | 22.39 | | 191 | 74.17 | 41.39 | 80.24 | 195.39 | 22.37 | 0.00 |
| 192 | 74.24 | 41.38932 | 80.25044 | 196.42 | 22.37 | | 192 | 74.25 | 41.39 | 80.25 | 196.82 | 22.34 | 0.01 |
| 193 | 74.32 | 41.39113 | 80.26583 | 197.85 | 22.34 | | 193 | 74.32 | 41.39 | 80.27 | 198.25 | 22.32 | 0.00 |
| 194 | 74.40 | 41.39314 | 80.28119 | 199.28 | 22.32 | | 194 | 74.40 | 41.39 | 80.28 | 199.68 | 22.29 | 0.00 |
| 195 | 74.48 | 41.39535 | 80.29652 | 200.71 | 22.29 | | 195 | 74.48 | 41.40 | 80.30 | 201.11 | 22.27 | 0.00 |
| 196 | 74.56 | 41.39776 | 80.31181 | 202.14 | 22.27 | | 196 | 74.56 | 41.40 | 80.31 | 202.54 | 22.24 | 0.00 |
| 197 | 74.64 | 41.40038 | 80.32706 | 203.56 | 22.24 | | 197 | 74.64 | 41.40 | 80.33 | 203.96 | 22.22 | 0.00 |
| 198 | 74.72 | 41.40319 | 80.34227 | 204.99 | 22.22 | | 198 | 74.72 | 41.40 | 80.34 | 205.39 | 22.19 | 0.00 |
| 199 | 74.79 | 41.40621 | 80.35742 | 206.42 | 22.19 | | 199 | 74.80 | 41.41 | 80.36 | 206.82 | 22.17 | 0.01 |
| 200 | 74.87 | 41.40942 | 80.37252 | 207.85 | 22.17 | | 200 | 74.88 | 41.41 | 80.37 | 208.25 | 22.14 | 0.01 |
| 201 | 74.96 | 41.41275 | 80.3876 | 209.28 | 22.15 | | 201 | 74.97 | 41.41 | 80.39 | 209.68 | 22.13 | 0.01 |
| 202 | 75.05 | 41.41627 | 80.40263 | 210.71 | 22.13 | | 202 | 75.06 | 41.42 | 80.40 | 211.11 | 22.11 | 0.01 |
| 203 | 75.14 | 41.41999 | 80.41758 | 212.14 | 22.12 | | 203 | 75.15 | 41.42 | 80.42 | 212.54 | 22.09 | 0.01 |
| 204 | 75.23 | 41.42391 | 80.43248 | 213.57 | 22.10 | | 204 | 75.24 | 41.42 | 80.43 | 213.97 | 22.08 | 0.01 |
| 205 | 75.32 | 41.42803 | 80.44729 | 215.00 | 22.09 | | 205 | 75.33 | 41.43 | 80.45 | 215.40 | 22.06 | 0.01 |
| 206 | 75.41 | 41.43235 | 80.46203 | 216.43 | 22.07 | | 206 | 75.41 | 41.43 | 80.46 | 216.83 | 22.05 | 0.00 |
| 207 | 75.50 | 41.43686 | 80.47667 | 217.86 | 22.05 | | 207 | 75.50 | 41.44 | 80.48 | 218.26 | 22.03 | 0.00 |
| 208 | 75.59 | 41.44158 | 80.49123 | 219.29 | 22.04 | | 208 | 75.59 | 41.44 | 80.49 | 219.69 | 22.01 | 0.00 |
| 209 | 75.68 | 41.44649 | 80.5057 | 220.72 | 22.02 | | 209 | 75.68 | 41.45 | 80.51 | 221.12 | 22.00 | 0.00 |
| 210 | 75.77 | 41.4516 | 80.52006 | 222.15 | 22.00 | | 210 | 75.77 | 41.45 | 80.52 | 222.55 | 21.98 | 0.00 |
| 211 | 75.89 | 41.45664 | 80.53452 | 223.57 | 22.02 | | 211 | 75.89 | 41.46 | 80.53 | 223.97 | 21.99 | 0.00 |
| 212 | 76.01 | 41.46188 | 80.54889 | 225.00 | 22.03 | | 212 | 76.01 | 41.46 | 80.55 | 225.40 | 22.00 | 0.00 |
| 213 | 76.13 | 41.46732 | 80.56316 | 226.43 | 22.04 | | 213 | 76.13 | 41.47 | 80.56 | 226.83 | 22.02 | 0.00 |
| 214 | 76.25 | 41.47296 | 80.57731 | 227.86 | 22.05 | | 214 | 76.25 | 41.47 | 80.58 | 228.26 | 22.03 | 0.00 |
| 215 | 76.37 | 41.47879 | 80.59136 | 229.29 | 22.06 | | 215 | 76.37 | 41.48 | 80.59 | 229.69 | 22.04 | 0.00 |
| 216 | 76.49 | 41.48482 | 80.60528 | 230.72 | 22.07 | | 216 | 76.49 | 41.48 | 80.61 | 231.12 | 22.05 | 0.00 |
| 217 | 76.61 | 41.49104 | 80.61909 | 232.15 | 22.08 | | 217 | 76.61 | 41.49 | 80.62 | 232.55 | 22.06 | 0.00 |
| 218 | 76.73 | 41.49746 | 80.63276 | 233.58 | 22.10 | | 218 | 76.73 | 41.50 | 80.63 | 233.98 | 22.07 | 0.00 |
| 219 | 76.85 | 41.50406 | 80.64631 | 235.01 | 22.11 | | 219 | 76.85 | 41.50 | 80.65 | 235.41 | 22.08 | 0.00 |
| 220 | 76.97 | 41.51085 | 80.65972 | 236.44 | 22.12 | | 220 | 76.97 | 41.51 | 80.66 | 236.84 | 22.10 | 0.00 |
| 221 | 77.11 | 41.51766 | 80.67318 | 237.87 | 22.15 | | 221 | 77.11 | 41.52 | 80.67 | 238.27 | 22.13 | 0.00 |
| 222 | 77.25 | 41.52466 | 80.6865 | 239.30 | 22.18 | | 222 | 77.25 | 41.52 | 80.69 | 239.70 | 22.16 | 0.00 |
| 223 | 77.39 | 41.53185 | 80.69968 | 240.73 | 22.21 | | 223 | 77.39 | 41.53 | 80.70 | 241.13 | 22.19 | 0.00 |
| 224 | 77.53 | 41.53923 | 80.7127 | 242.16 | 22.25 | | 224 | 77.53 | 41.54 | 80.71 | 242.56 | 22.22 | 0.00 |
| 225 | 77.67 | 41.54679 | 80.72558 | 243.58 | 22.28 | | 225 | 77.68 | 41.55 | 80.73 | 243.98 | 22.25 | 0.01 |
| 226 | 77.87 | 41.55422 | 80.73874 | 245.70 | 22.31 | | 226 | 77.87 | 41.55 | 80.74 | 246.10 | 22.29 | 0.00 |
| 227 | 78.06 | 41.56181 | 80.75178 | 247.82 | 22.34 | | 227 | 78.06 | 41.56 | 80.75 | 248.22 | 22.32 | 0.00 |
| 228 | 78.26 | 41.56958 | 80.7647 | 249.93 | 22.37 | | 228 | 78.26 | 41.57 | 80.76 | 250.33 | 22.35 | 0.00 |
| 229 | 78.46 | 41.57752 | 80.7775 | 252.05 | 22.40 | | 229 | 78.46 | 41.58 | 80.78 | 252.45 | 22.38 | 0.00 |
| 230 | 78.67 | 41.58561 | 80.79019 | 254.16 | 22.43 | | 230 | 78.67 | 41.59 | 80.79 | 254.56 | 22.41 | 0.00 |
| 231 | 78.88 | 41.59388 | 80.80274 | 256.28 | 22.46 | | 231 | 78.88 | 41.59 | 80.80 | 256.68 | 22.44 | 0.00 |
| 232 | 79.09 | 41.60231 | 80.81517 | 258.40 | 22.49 | | 232 | 79.09 | 41.60 | 80.82 | 258.80 | 22.47 | 0.00 |

WQLN-TV (Ch. 27 at Erie, PA)

Table 1 - Distance to Noise-Limited Contour (NLC) Comparison
Assigned Post-Incentive Auction Facility vs. Proposed Facility

Assigned Repack Baseline .csv File Data

Proposed Facility .csv File Data (tvixcontour.csv)

| Azimuth (deg) | Distance to NLC (km) | Latitude | Longitude | HAAT (m) | ERP (dBk) | | Azimuth (deg) | Distance to NLC (km) | Latitude | Longitude | HAAT (m) | ERP (dBk) | Difference (km) |
|------------------|-------------------------|----------|-----------|-------------|--------------|--|------------------|-------------------------|----------|-----------|-------------|--------------|--------------------|
| 233 | 79.31 | 41.6109 | 80.82749 | 260.51 | 22.52 | | 233 | 79.31 | 41.61 | 80.83 | 260.91 | 22.50 | 0.00 |
| 234 | 79.53 | 41.61964 | 80.83968 | 262.63 | 22.55 | | 234 | 79.54 | 41.62 | 80.84 | 263.03 | 22.53 | 0.01 |
| 235 | 79.76 | 41.62854 | 80.85175 | 264.75 | 22.58 | | 235 | 79.77 | 41.63 | 80.85 | 265.15 | 22.56 | 0.01 |
| 236 | 79.99 | 41.63761 | 80.86369 | 266.86 | 22.61 | | 236 | 80.00 | 41.64 | 80.86 | 267.26 | 22.59 | 0.01 |
| 237 | 80.24 | 41.64681 | 80.87554 | 268.98 | 22.64 | | 237 | 80.25 | 41.65 | 80.88 | 269.38 | 22.62 | 0.01 |
| 238 | 80.49 | 41.65617 | 80.88725 | 271.09 | 22.67 | | 238 | 80.50 | 41.66 | 80.89 | 271.49 | 22.65 | 0.01 |
| 239 | 80.74 | 41.66568 | 80.89883 | 273.21 | 22.70 | | 239 | 80.75 | 41.67 | 80.90 | 273.61 | 22.68 | 0.01 |
| 240 | 81.01 | 41.67532 | 80.91037 | 275.33 | 22.73 | | 240 | 81.02 | 41.68 | 80.91 | 275.73 | 22.71 | 0.01 |
| 241 | 81.26 | 41.68521 | 80.92153 | 277.44 | 22.74 | | 241 | 81.27 | 41.69 | 80.92 | 277.84 | 22.72 | 0.01 |
| 242 | 81.51 | 41.69527 | 80.93253 | 279.56 | 22.75 | | 242 | 81.53 | 41.70 | 80.93 | 279.96 | 22.73 | 0.02 |
| 243 | 81.78 | 41.70545 | 80.94344 | 281.67 | 22.76 | | 243 | 81.79 | 41.71 | 80.94 | 282.07 | 22.74 | 0.01 |
| 244 | 82.05 | 41.71578 | 80.95423 | 283.79 | 22.77 | | 244 | 82.07 | 41.72 | 80.95 | 284.19 | 22.75 | 0.02 |
| 245 | 82.33 | 41.72628 | 80.96482 | 285.91 | 22.78 | | 245 | 82.34 | 41.73 | 80.96 | 286.31 | 22.76 | 0.01 |
| 246 | 82.61 | 41.73692 | 80.97528 | 288.02 | 22.79 | | 246 | 82.63 | 41.74 | 80.98 | 288.42 | 22.77 | 0.02 |
| 247 | 82.90 | 41.74772 | 80.98557 | 290.14 | 22.80 | | 247 | 82.92 | 41.75 | 80.99 | 290.54 | 22.78 | 0.02 |
| 248 | 83.19 | 41.7587 | 80.99561 | 292.25 | 22.81 | | 248 | 83.20 | 41.76 | 81.00 | 292.65 | 22.79 | 0.01 |
| 249 | 83.48 | 41.76983 | 81.00548 | 294.37 | 22.82 | | 249 | 83.49 | 41.77 | 81.01 | 294.77 | 22.80 | 0.01 |
| 250 | 83.77 | 41.78114 | 81.0151 | 296.49 | 22.83 | | 250 | 83.78 | 41.78 | 81.02 | 296.89 | 22.81 | 0.01 |
| 251 | 84.01 | 41.79277 | 81.02385 | 298.60 | 22.81 | | 251 | 84.02 | 41.79 | 81.02 | 299.00 | 22.79 | 0.01 |
| 252 | 84.24 | 41.80456 | 81.03235 | 300.72 | 22.80 | | 252 | 84.25 | 41.80 | 81.03 | 301.12 | 22.77 | 0.01 |
| 253 | 84.47 | 41.8165 | 81.04052 | 302.83 | 22.78 | | 253 | 84.48 | 41.82 | 81.04 | 303.23 | 22.76 | 0.01 |
| 254 | 84.69 | 41.8286 | 81.04833 | 304.95 | 22.76 | | 254 | 84.70 | 41.83 | 81.05 | 305.35 | 22.74 | 0.01 |
| 255 | 84.91 | 41.84085 | 81.05583 | 307.07 | 22.74 | | 255 | 84.92 | 41.84 | 81.06 | 307.47 | 22.72 | 0.01 |
| 256 | 85.13 | 41.85321 | 81.06311 | 309.18 | 22.72 | | 256 | 85.14 | 41.85 | 81.06 | 309.58 | 22.70 | 0.01 |
| 257 | 85.35 | 41.8657 | 81.07009 | 311.30 | 22.70 | | 257 | 85.36 | 41.87 | 81.07 | 311.70 | 22.68 | 0.01 |
| 258 | 85.57 | 41.87832 | 81.07677 | 313.42 | 22.69 | | 258 | 85.58 | 41.88 | 81.08 | 313.82 | 22.66 | 0.01 |
| 259 | 85.79 | 41.89105 | 81.08317 | 315.53 | 22.67 | | 259 | 85.80 | 41.89 | 81.08 | 315.93 | 22.64 | 0.01 |
| 260 | 86.01 | 41.9039 | 81.08929 | 317.65 | 22.65 | | 260 | 86.02 | 41.90 | 81.09 | 318.05 | 22.63 | 0.01 |
| 261 | 86.17 | 41.91695 | 81.09442 | 319.76 | 22.60 | | 261 | 86.18 | 41.92 | 81.09 | 320.16 | 22.58 | 0.01 |
| 262 | 86.33 | 41.93009 | 81.09921 | 321.88 | 22.55 | | 262 | 86.34 | 41.93 | 81.10 | 322.28 | 22.53 | 0.01 |
| 263 | 86.49 | 41.94332 | 81.10367 | 324.00 | 22.50 | | 263 | 86.49 | 41.94 | 81.10 | 324.40 | 22.48 | 0.00 |
| 264 | 86.64 | 41.95663 | 81.10782 | 326.11 | 22.45 | | 264 | 86.65 | 41.96 | 81.11 | 326.51 | 22.42 | 0.01 |
| 265 | 86.79 | 41.97002 | 81.11162 | 328.23 | 22.40 | | 265 | 86.80 | 41.97 | 81.11 | 328.63 | 22.37 | 0.01 |
| 266 | 86.94 | 41.98348 | 81.11508 | 330.34 | 22.35 | | 266 | 86.95 | 41.98 | 81.12 | 330.74 | 22.32 | 0.01 |
| 267 | 87.09 | 41.99701 | 81.11817 | 332.46 | 22.29 | | 267 | 87.09 | 42.00 | 81.12 | 332.86 | 22.27 | 0.00 |
| 268 | 87.23 | 42.01061 | 81.12091 | 334.58 | 22.24 | | 268 | 87.23 | 42.01 | 81.12 | 334.98 | 22.22 | 0.00 |
| 269 | 87.37 | 42.02426 | 81.1233 | 336.69 | 22.19 | | 269 | 87.37 | 42.02 | 81.12 | 337.09 | 22.17 | 0.00 |
| 270 | 87.50 | 42.03796 | 81.12533 | 338.81 | 22.14 | | 270 | 87.50 | 42.04 | 81.13 | 339.21 | 22.11 | 0.00 |
| 271 | 87.48 | 42.0517 | 81.12518 | 340.03 | 22.05 | | 271 | 87.49 | 42.05 | 81.13 | 340.43 | 22.03 | 0.01 |
| 272 | 87.46 | 42.06543 | 81.12467 | 341.26 | 21.97 | | 272 | 87.47 | 42.07 | 81.12 | 341.66 | 21.95 | 0.01 |
| 273 | 87.44 | 42.07914 | 81.12382 | 342.49 | 21.88 | | 273 | 87.44 | 42.08 | 81.12 | 342.89 | 21.86 | 0.00 |
| 274 | 87.42 | 42.09285 | 81.12262 | 343.71 | 21.80 | | 274 | 87.42 | 42.09 | 81.12 | 344.11 | 21.77 | 0.00 |
| 275 | 87.39 | 42.10652 | 81.12108 | 344.94 | 21.71 | | 275 | 87.39 | 42.11 | 81.12 | 345.34 | 21.69 | 0.00 |
| 276 | 87.36 | 42.12017 | 81.11918 | 346.16 | 21.62 | | 276 | 87.36 | 42.12 | 81.12 | 346.56 | 21.60 | 0.00 |
| 277 | 87.33 | 42.13379 | 81.11694 | 347.39 | 21.53 | | 277 | 87.33 | 42.13 | 81.12 | 347.79 | 21.51 | 0.00 |
| 278 | 87.30 | 42.14737 | 81.11435 | 348.61 | 21.44 | | 278 | 87.30 | 42.15 | 81.11 | 349.01 | 21.42 | 0.00 |
| 279 | 87.26 | 42.1609 | 81.11142 | 349.84 | 21.35 | | 279 | 87.26 | 42.16 | 81.11 | 350.24 | 21.33 | 0.00 |
| 280 | 87.22 | 42.17439 | 81.10815 | 351.07 | 21.26 | | 280 | 87.22 | 42.17 | 81.11 | 351.47 | 21.23 | 0.00 |
| 281 | 87.14 | 42.18774 | 81.10397 | 352.29 | 21.14 | | 281 | 87.14 | 42.19 | 81.10 | 352.69 | 21.11 | 0.00 |
| 282 | 87.05 | 42.20103 | 81.09944 | 353.52 | 21.01 | | 282 | 87.05 | 42.20 | 81.10 | 353.92 | 20.99 | 0.00 |
| 283 | 86.95 | 42.21423 | 81.09456 | 354.74 | 20.89 | | 283 | 86.95 | 42.21 | 81.09 | 355.14 | 20.87 | 0.00 |
| 284 | 86.86 | 42.22734 | 81.08933 | 355.97 | 20.76 | | 284 | 86.86 | 42.23 | 81.09 | 356.37 | 20.74 | 0.00 |
| 285 | 86.76 | 42.24036 | 81.08376 | 357.20 | 20.64 | | 285 | 86.76 | 42.24 | 81.08 | 357.60 | 20.61 | 0.00 |
| 286 | 86.65 | 42.25328 | 81.07783 | 358.42 | 20.51 | | 286 | 86.65 | 42.25 | 81.08 | 358.82 | 20.48 | 0.00 |
| 287 | 86.55 | 42.2661 | 81.07157 | 359.65 | 20.37 | | 287 | 86.55 | 42.27 | 81.07 | 360.05 | 20.35 | 0.00 |
| 288 | 86.44 | 42.27882 | 81.06497 | 360.87 | 20.24 | | 288 | 86.44 | 42.28 | 81.06 | 361.27 | 20.22 | 0.00 |
| 289 | 86.32 | 42.29141 | 81.05803 | 362.10 | 20.11 | | 289 | 86.32 | 42.29 | 81.06 | 362.50 | 20.08 | 0.00 |
| 290 | 86.20 | 42.30389 | 81.05076 | 363.32 | 19.97 | | 290 | 86.20 | 42.30 | 81.05 | 363.72 | 19.94 | 0.00 |
| 291 | 86.06 | 42.31616 | 81.04285 | 364.55 | 19.81 | | 291 | 86.05 | 42.32 | 81.04 | 364.95 | 19.79 | -0.01 |
| 292 | 85.90 | 42.32828 | 81.03461 | 365.78 | 19.65 | | 292 | 85.90 | 42.33 | 81.03 | 366.18 | 19.63 | 0.00 |

WQLN-TV (Ch. 27 at Erie, PA)

**Table 1 - Distance to Noise-Limited Contour (NLC) Comparison
Assigned Post-Incentive Auction Facility vs. Proposed Facility**

Assigned Repack Baseline .csv File Data

Proposed Facility .csv File Data (tvixcontour.csv)

| Azimuth (deg) | Distance to NLC (km) | Latitude | Longitude | HAAT (m) | ERP (dBk) | | Azimuth (deg) | Distance to NLC (km) | Latitude | Longitude | HAAT (m) | ERP (dBk) | Difference (km) |
|------------------|-------------------------|----------|-----------|-------------|--------------|--|------------------|-------------------------|----------|-----------|-------------|--------------|--------------------|
| 293 | 85.74 | 42.34025 | 81.02603 | 367.00 | 19.49 | | 293 | 85.74 | 42.34 | 81.03 | 367.40 | 19.47 | 0.00 |
| 294 | 85.58 | 42.35208 | 81.01712 | 368.23 | 19.33 | | 294 | 85.58 | 42.35 | 81.02 | 368.63 | 19.30 | 0.00 |
| 295 | 85.41 | 42.36374 | 81.00789 | 369.45 | 19.16 | | 295 | 85.41 | 42.36 | 81.01 | 369.85 | 19.14 | 0.00 |
| 296 | 85.24 | 42.37523 | 80.99833 | 370.68 | 18.99 | | 296 | 85.23 | 42.38 | 81.00 | 371.08 | 18.96 | -0.01 |
| 297 | 85.05 | 42.38655 | 80.98845 | 371.90 | 18.81 | | 297 | 85.05 | 42.39 | 80.99 | 372.30 | 18.79 | 0.00 |
| 298 | 84.87 | 42.39769 | 80.97824 | 373.13 | 18.63 | | 298 | 84.86 | 42.40 | 80.98 | 373.53 | 18.61 | -0.01 |
| 299 | 84.67 | 42.40864 | 80.96774 | 374.36 | 18.45 | | 299 | 84.67 | 42.41 | 80.97 | 374.76 | 18.43 | 0.00 |
| 300 | 84.47 | 42.4194 | 80.95691 | 375.58 | 18.26 | | 300 | 84.47 | 42.42 | 80.96 | 375.98 | 18.24 | 0.00 |
| 301 | 84.27 | 42.42998 | 80.94585 | 376.81 | 18.08 | | 301 | 84.27 | 42.43 | 80.95 | 377.21 | 18.06 | 0.00 |
| 302 | 84.07 | 42.44037 | 80.93449 | 378.03 | 17.89 | | 302 | 84.06 | 42.44 | 80.93 | 378.43 | 17.87 | -0.01 |
| 303 | 83.85 | 42.45054 | 80.92283 | 379.26 | 17.70 | | 303 | 83.85 | 42.45 | 80.92 | 379.66 | 17.67 | 0.00 |
| 304 | 83.63 | 42.46049 | 80.91088 | 380.49 | 17.50 | | 304 | 83.63 | 42.46 | 80.91 | 380.89 | 17.47 | 0.00 |
| 305 | 83.40 | 42.47022 | 80.89863 | 381.71 | 17.29 | | 305 | 83.40 | 42.47 | 80.90 | 382.11 | 17.27 | 0.00 |
| 306 | 83.16 | 42.47972 | 80.8861 | 382.94 | 17.09 | | 306 | 83.16 | 42.48 | 80.89 | 383.34 | 17.06 | 0.00 |
| 307 | 82.92 | 42.48897 | 80.87329 | 384.16 | 16.87 | | 307 | 82.91 | 42.49 | 80.87 | 384.56 | 16.85 | -0.01 |
| 308 | 82.66 | 42.49799 | 80.86021 | 385.39 | 16.65 | | 308 | 82.66 | 42.50 | 80.86 | 385.79 | 16.63 | 0.00 |
| 309 | 82.40 | 42.50674 | 80.84686 | 386.61 | 16.43 | | 309 | 82.39 | 42.51 | 80.85 | 387.01 | 16.41 | -0.01 |
| 310 | 82.13 | 42.51524 | 80.83325 | 387.84 | 16.20 | | 310 | 82.12 | 42.52 | 80.83 | 388.24 | 16.18 | -0.01 |
| 311 | 81.90 | 42.5238 | 80.81991 | 389.07 | 16.00 | | 311 | 81.89 | 42.52 | 80.82 | 389.47 | 15.98 | -0.01 |
| 312 | 81.67 | 42.53211 | 80.80632 | 390.29 | 15.80 | | 312 | 81.66 | 42.53 | 80.81 | 390.69 | 15.77 | -0.01 |
| 313 | 81.43 | 42.54017 | 80.79249 | 391.52 | 15.59 | | 313 | 81.42 | 42.54 | 80.79 | 391.92 | 15.56 | -0.01 |
| 314 | 81.18 | 42.54796 | 80.77844 | 392.74 | 15.37 | | 314 | 81.17 | 42.55 | 80.78 | 393.14 | 15.35 | -0.01 |
| 315 | 80.92 | 42.55549 | 80.76416 | 393.97 | 15.15 | | 315 | 80.91 | 42.56 | 80.76 | 394.37 | 15.13 | -0.01 |
| 316 | 80.56 | 42.56219 | 80.74892 | 393.88 | 14.93 | | 316 | 80.55 | 42.56 | 80.75 | 394.28 | 14.90 | -0.01 |
| 317 | 80.20 | 42.5686 | 80.73349 | 393.79 | 14.69 | | 317 | 80.19 | 42.57 | 80.73 | 394.19 | 14.67 | -0.01 |
| 318 | 79.82 | 42.57469 | 80.71789 | 393.70 | 14.46 | | 318 | 79.82 | 42.57 | 80.72 | 394.10 | 14.43 | 0.00 |
| 319 | 79.44 | 42.58048 | 80.70213 | 393.60 | 14.21 | | 319 | 79.43 | 42.58 | 80.70 | 394.00 | 14.19 | -0.01 |
| 320 | 79.05 | 42.58595 | 80.6862 | 393.51 | 13.96 | | 320 | 79.04 | 42.59 | 80.69 | 393.91 | 13.94 | -0.01 |
| 321 | 78.72 | 42.59162 | 80.67071 | 393.42 | 13.75 | | 321 | 78.71 | 42.59 | 80.67 | 393.82 | 13.73 | -0.01 |
| 322 | 78.38 | 42.597 | 80.65508 | 393.33 | 13.53 | | 322 | 78.37 | 42.60 | 80.66 | 393.73 | 13.51 | -0.01 |
| 323 | 78.03 | 42.60208 | 80.63932 | 393.24 | 13.31 | | 323 | 78.02 | 42.60 | 80.64 | 393.64 | 13.29 | -0.01 |
| 324 | 77.68 | 42.60687 | 80.62343 | 393.15 | 13.09 | | 324 | 77.67 | 42.61 | 80.62 | 393.55 | 13.06 | -0.01 |
| 325 | 77.31 | 42.61135 | 80.60743 | 393.06 | 12.85 | | 325 | 77.31 | 42.61 | 80.61 | 393.46 | 12.83 | 0.00 |
| 326 | 76.94 | 42.61552 | 80.59132 | 392.96 | 12.62 | | 326 | 76.93 | 42.62 | 80.59 | 393.36 | 12.59 | -0.01 |
| 327 | 76.56 | 42.61937 | 80.57511 | 392.87 | 12.37 | | 327 | 76.55 | 42.62 | 80.58 | 393.27 | 12.35 | -0.01 |
| 328 | 76.16 | 42.6229 | 80.55882 | 392.78 | 12.12 | | 328 | 76.16 | 42.62 | 80.56 | 393.18 | 12.09 | 0.00 |
| 329 | 75.76 | 42.6261 | 80.54244 | 392.69 | 11.86 | | 329 | 75.75 | 42.63 | 80.54 | 393.09 | 11.83 | -0.01 |
| 330 | 75.34 | 42.62896 | 80.52599 | 392.60 | 11.59 | | 330 | 75.34 | 42.63 | 80.53 | 393.00 | 11.57 | 0.00 |
| 331 | 75.02 | 42.63226 | 80.51006 | 392.51 | 11.38 | | 331 | 75.01 | 42.63 | 80.51 | 392.91 | 11.35 | -0.01 |
| 332 | 74.68 | 42.63528 | 80.49409 | 392.42 | 11.16 | | 332 | 74.67 | 42.64 | 80.49 | 392.82 | 11.14 | -0.01 |
| 333 | 74.34 | 42.63799 | 80.47805 | 392.33 | 10.94 | | 333 | 74.33 | 42.64 | 80.48 | 392.73 | 10.91 | -0.01 |
| 334 | 73.98 | 42.64041 | 80.46198 | 392.23 | 10.71 | | 334 | 73.98 | 42.64 | 80.46 | 392.63 | 10.69 | 0.00 |
| 335 | 73.62 | 42.64252 | 80.44588 | 392.14 | 10.47 | | 335 | 73.61 | 42.64 | 80.45 | 392.54 | 10.45 | -0.01 |
| 336 | 73.25 | 42.64433 | 80.42975 | 392.05 | 10.23 | | 336 | 73.25 | 42.64 | 80.43 | 392.45 | 10.21 | 0.00 |
| 337 | 72.87 | 42.64582 | 80.4136 | 391.96 | 9.98 | | 337 | 72.87 | 42.65 | 80.41 | 392.36 | 9.96 | 0.00 |
| 338 | 72.48 | 42.647 | 80.39745 | 391.87 | 9.73 | | 338 | 72.48 | 42.65 | 80.40 | 392.27 | 9.71 | 0.00 |
| 339 | 72.08 | 42.64786 | 80.38131 | 391.78 | 9.47 | | 339 | 72.08 | 42.65 | 80.38 | 392.18 | 9.44 | 0.00 |
| 340 | 71.67 | 42.6484 | 80.36518 | 391.69 | 9.19 | | 340 | 71.67 | 42.65 | 80.37 | 392.09 | 9.17 | 0.00 |
| 341 | 71.41 | 42.64996 | 80.34972 | 391.60 | 9.02 | | 341 | 71.40 | 42.65 | 80.35 | 392.00 | 9.00 | -0.01 |
| 342 | 71.14 | 42.65126 | 80.33425 | 391.50 | 8.84 | | 342 | 71.14 | 42.65 | 80.33 | 391.90 | 8.82 | 0.00 |
| 343 | 70.87 | 42.65231 | 80.3188 | 391.41 | 8.66 | | 343 | 70.86 | 42.65 | 80.32 | 391.81 | 8.64 | -0.01 |
| 344 | 70.59 | 42.65311 | 80.30336 | 391.32 | 8.48 | | 344 | 70.59 | 42.65 | 80.30 | 391.72 | 8.46 | 0.00 |
| 345 | 70.31 | 42.65364 | 80.28794 | 391.23 | 8.29 | | 345 | 70.30 | 42.65 | 80.29 | 391.63 | 8.27 | -0.01 |
| 346 | 70.02 | 42.65392 | 80.27256 | 391.14 | 8.10 | | 346 | 70.02 | 42.65 | 80.27 | 391.54 | 8.08 | 0.00 |
| 347 | 69.73 | 42.65395 | 80.25721 | 391.05 | 7.90 | | 347 | 69.72 | 42.65 | 80.26 | 391.45 | 7.88 | -0.01 |
| 348 | 69.43 | 42.6537 | 80.24192 | 390.96 | 7.70 | | 348 | 69.42 | 42.65 | 80.24 | 391.36 | 7.68 | -0.01 |
| 349 | 69.13 | 42.65321 | 80.22668 | 390.86 | 7.50 | | 349 | 69.12 | 42.65 | 80.23 | 391.26 | 7.48 | -0.01 |
| 350 | 68.81 | 42.65245 | 80.2115 | 390.77 | 7.29 | | 350 | 68.81 | 42.65 | 80.21 | 391.17 | 7.26 | 0.00 |
| 351 | 68.71 | 42.65332 | 80.19682 | 390.68 | 7.22 | | 351 | 68.70 | 42.65 | 80.20 | 391.08 | 7.20 | -0.01 |
| 352 | 68.60 | 42.65399 | 80.18213 | 390.59 | 7.15 | | 352 | 68.60 | 42.65 | 80.18 | 390.99 | 7.13 | 0.00 |

WQLN-TV (Ch. 27 at Erie, PA)

**Table 1 - Distance to Noise-Limited Contour (NLC) Comparison
Assigned Post-Incentive Auction Facility vs. Proposed Facility**

Assigned Repack Baseline .csv File Data

Proposed Facility .csv File Data (tvixcontour.csv)

| Azimuth (deg) | Distance to NLC (km) | Latitude | Longitude | HAAT (m) | ERP (dBk) | | Azimuth (deg) | Distance to NLC (km) | Latitude | Longitude | HAAT (m) | ERP (dBk) | Difference (km) |
|------------------|-------------------------|----------|-----------|-------------|--------------|--|------------------|-------------------------|----------|-----------|-------------|--------------|--------------------|
| 353 | 68.50 | 42.65448 | 80.16745 | 390.50 | 7.08 | | 353 | 68.49 | 42.65 | 80.17 | 390.90 | 7.06 | -0.01 |
| 354 | 68.39 | 42.65476 | 80.15279 | 390.41 | 7.01 | | 354 | 68.39 | 42.65 | 80.15 | 390.81 | 6.99 | 0.00 |
| 355 | 68.29 | 42.65485 | 80.13814 | 390.32 | 6.94 | | 355 | 68.28 | 42.65 | 80.14 | 390.72 | 6.92 | -0.01 |
| 356 | 68.18 | 42.65473 | 80.12351 | 390.23 | 6.87 | | 356 | 68.17 | 42.65 | 80.12 | 390.63 | 6.85 | -0.01 |
| 357 | 68.07 | 42.65442 | 80.10891 | 390.13 | 6.80 | | 357 | 68.06 | 42.65 | 80.11 | 390.53 | 6.78 | -0.01 |
| 358 | 67.96 | 42.65391 | 80.09435 | 390.04 | 6.73 | | 358 | 67.96 | 42.65 | 80.09 | 390.44 | 6.71 | 0.00 |
| 359 | 67.85 | 42.6532 | 80.07982 | 389.95 | 6.66 | | 359 | 67.85 | 42.65 | 80.08 | 390.35 | 6.63 | 0.00 |