



Kessler and Gehman Associates
Consultants • Broadcast • Wireless

MINOR MODIFICATION APPLICATION TO A LICENSED LPTV FACILITY

CALL SIGN: WPXO-LD
FACILITY ID: 14311
LOCATION: East Orange, NJ

Prepared For:

Caribevision Holdings, Inc.,
Debtor-in-Possession
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Prepared By:

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1.0 EXECUTIVE SUMMARY

Caribevision Holdings, Inc., Debtor-in-Possession is the licensee of a digital low power television broadcast station having call sign WPXO-LD, and facility ID 14311. WPXO-LD has a license¹ to operate on channel 4 using a directional antenna with an ERP of 0.3 kW at a height of 242.9m AMSL on antenna structure number 1001988. It is proposed to remove the antenna from ASR 1001988 and put it on another support structure located within the same fenced in compound as the registered tower. More specifically it is proposed to

- decrease the antenna height AMSL by 46.6m,
- change the transmitter site by 0.5 arc second from
 - 40-48-7.6 N 74-14-45.5 W(NAD 83) to
 - 40-48-7.1 N 74-14-45.5 W(NAD 83).

No other changes are proposed.

2.0 MINOR MODIFICATION

The proposed facility modification described in section 1.0 is considered “minor” pursuant to 47 CFR 74.787 since

- there is no change in output frequency,
- the protected contour of the proposed facility is 100% subsumed by the licensed facility as illustrated in Appendix B,
- and the change in transmitting antenna location is less than 30 miles (48km) from the reference coordinates of the existing station’s antenna location.

¹ FCC File No.: 0000029573

3.0 TRANSMITTER LOCATION AND TOWER REGISTRATION

It is proposed to move WPXO-LD from its licensed location to an existing structure not registered with the FCC. TOWAIR determines that registration is not required:

- “Structure does not require registration. There are no airports within 8 kilometers (5 miles) of the coordinates you provided.”

It is proposed to side mount the WPXO-LD antenna to the existing structure which would not modify the support structure height.

4.0 ALLOCATION ANALYSIS

Appendix A are the summarized results from TVStudy V2.2.5 which illustrate that there are no interference failures to other facilities.

5.0 RADIO FREQUENCY RADIATION (RFR) COMPLIANCE.

A theoretical analysis has been conducted of the human exposure to radio frequency radiation (“RFR”) using the calculation methodology described in OET Bulletin 65, Edition 97-01. The RFR analysis is conducted pursuant to the following methodology:

Terrain extraction is compiled from the support structure site, if the support structure is on a rooftop with no higher elevations (e.g., elevator shaft) then flat terrain is compiled. Terrain is extracted using radial lengths of 0.25 miles in 0.001-mile increments for 360 radials. The power density is calculated for each terrain point at 6 feet above ground level using the elevation and azimuth pattern of the proposed broadcast antenna. The power density calculations are conducted using the lower edge of the proposed channel frequency. To account for ground reflections, a coefficient of 1.6 was included in the calculation.

The resulting cylindrical polar analysis is then summarized into a coordinate plane graph using the following methodology:

Starting from the origin the maximum calculated RFR value is determined among the 360-degree radials for each 0.001-mile increment, the value is then converted into a percentage of the maximum allowable general population or uncontrolled exposure and plotted as a function of perpendicular distance from the tower.

The resulting RFR study in Appendix C demonstrates that the peak exposure is 0.06% of the most restrictive permissible exposure threshold. Pursuant to OET Bulletin 65 concerning multiple-user transmitter sites only those licensees whose transmitters produce power density levels greater than 5.0% of the exposure limit are considered significant contributors to RFR. Since the proposed operation is within 5% of the most permissible exposure at any location 2 meters above the ground, it is not considered a significant contributor to RFR exposure. Thus, contributions to exposure from other RF sources in the vicinity of the proposed facility were not taken into account. The instant application is compliant with the FCC limits for human exposure to RF radiation and thus is excluded from further environmental processing.

6.0 CERTIFICATION

The foregoing statement and the report regarding the engineering work are true and correct to the best of my knowledge. Executed May 10, 2023.

Kessler and Gehman Associates, Inc.



Ryan Wilhour
Consulting Engineer

WPXO-LD – Minor Modification to a Licensed Facility

East Orange, NJ

APPENDIX A – TVStudy V2.2.5 Allocation Analysis

Study created: 2023.05.10 09:03:35

Study build station data: LMS TV 2023-05-09

Proposal: WPXO-LD D4 LD LIC EAST ORANGE, NJ
File number: WPXO-LD Proposed
Facility ID: 14311
Station data: User record
Record ID: 1257
Country: U.S.

Build options:

Protect pre-transition records not on baseline channel

Search options:

Non-U.S. records included

Stations potentially affected by proposal:

| IX | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-----|----------|------|-----|--------|-------------------------|-----------------|----------|
| No | WJLP | D3 | DT | LIC | MIDDLETOWN TOWNSHIP, NJ | BLANK0000163350 | 22.4 km |
| No | WNWT-LD | D3 | LD | LIC | NEW YORK, NY | BLANK0000074714 | 22.4 |
| No | DWLWP-LP | N4+ | TX | APP | MILLSBORO, ETC., DE | BLTVL19980408JB | 263.6 |
| No | WHDT-LD | D4 | LD | CP | BOSTON, MA | BLANK0000153397 | 314.1 |
| Yes | WACP | D4 | DT | LIC | ATLANTIC CITY, NJ | BLANK0000093491 | 128.9 |

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D4
Mask: Full Service
Latitude: 40 48 7.10 N (NAD83)
Longitude: 74 14 45.50 W
Height AMSL: 198.8 m (Adjusted based on actual ground elevation calculation)
HAAT: 132.0 m
Peak ERP: 0.300 kW
Antenna: KAT-CL-46 100.0 deg
Elev Pattn: Generic

43.0 dBu contour:

| Azimuth | ERP | HAAT | Distance |
|---------|----------|--------|----------|
| 0.0 deg | 0.000 kW | 96.0 m | 3.5 km |
| 45.0 | 0.012 | 149.5 | 19.4 |
| 90.0 | 0.265 | 179.6 | 40.3 |
| 135.0 | 0.093 | 180.1 | 32.3 |
| 180.0 | 0.000 | 155.2 | 7.1 |
| 225.0 | 0.000 | 72.3 | 3.0 |
| 270.0 | 0.000 | 120.5 | 8.4 |
| 315.0 | 0.000 | 122.9 | 6.4 |

Database HAAT does not agree with computed HAAT

Database HAAT: 132 m Computed HAAT: 135 m

Distance to Canadian border: 378.1 km

Distance to Mexican border: 2659.1 km

Conditions at FCC monitoring station: Laurel MD

Bearing: 231.2 degrees Distance: 284.9 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 278.7 degrees Distance: 2606.5 km

WPXO-LD – Minor Modification to a Licensed Facility

East Orange, NJ

Study cell size: 1.00 km
Profile point spacing: 1.00 km

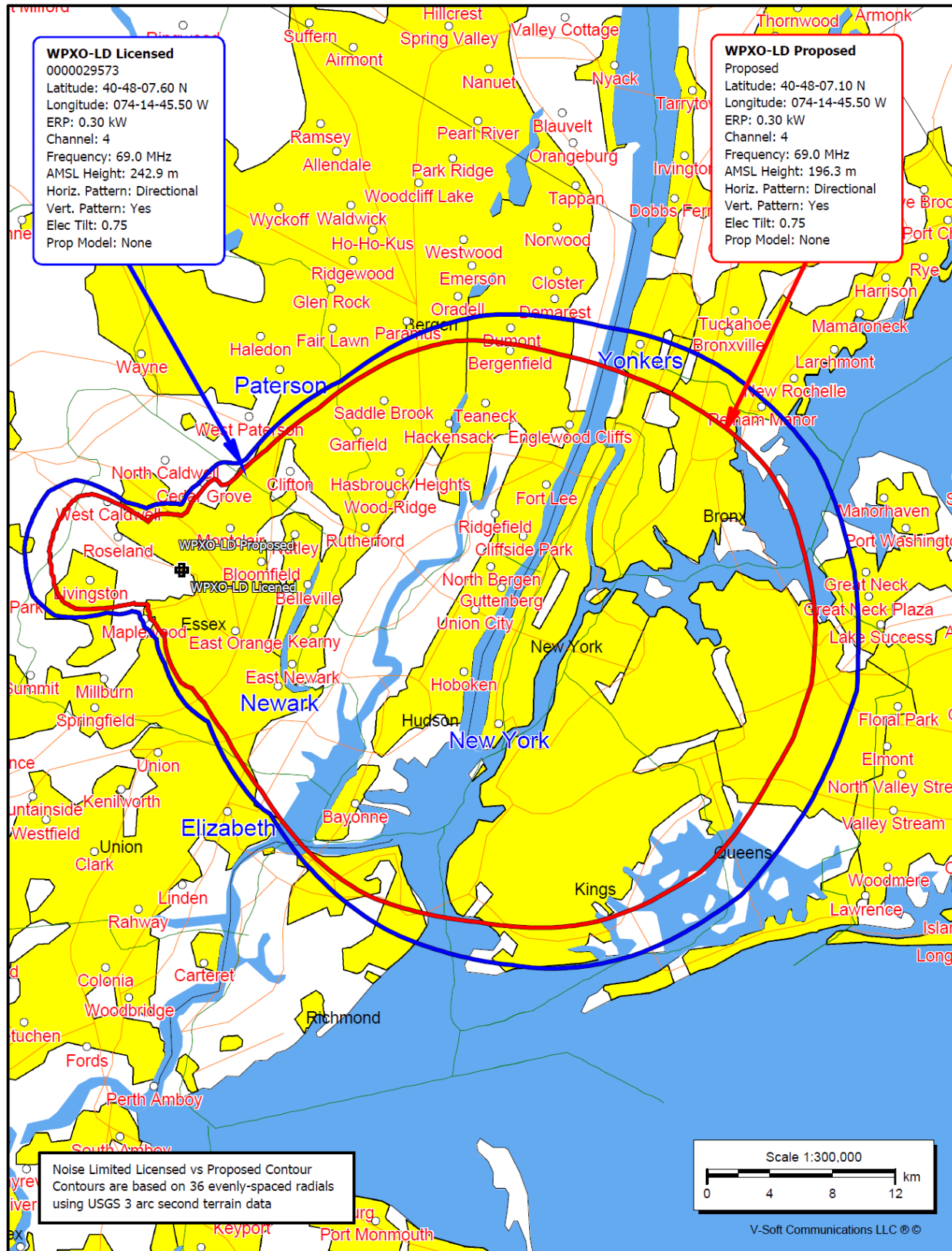
Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

Proposal causes 0.09% interference to BLANK0000093491 LIC scenario 1

---- Below is IX received by proposal WPXO-LD Proposed ----

Proposal receives 60.36% interference from scenario 1
No IX check failures found.

APPENDIX B – 43dBμ F(50,90) Permitted and Proposed Contour



APPENDIX C – Far Field Exposure to RF Emissions

