

Application for Modification
Post – Repack Construction Permit
Engineering Exhibit

WPXN-TV – New York, New York

Facility ID: 73356

Licensee “ION MEDIA LICENSE COMPANY, LLC” is currently authorized to operate on Post-Repack DTV channel 34 with an effective radiated power (ERP) of 106 kW at an HAAT of 520 m. The Antenna Structure Registration Number is 1263701 with a Latitude of 40° 42’ 46.8” N+ and a Longitude of 074° 00’ 47.3” W-.

The purpose of this application is to request authority to modify the pending construction permit application (0000034356) to operate from the same Antenna Structure Registration Number 1263701 with a Latitude of 40° 42’ 46.8” N+ and a Longitude of 074° 00’ 47.3” W-. An HAAT of 520 m (AGL 526.1 m) and an AMSL of 530.4 m with an ERP of 170 kW will be utilized.

Antenna System

An Omni-directional shared master antenna will be utilized. It will be affixed to the top of the One World Trade Center. There will be no change to the overall height of the structure. Any vertical component will not exceed the horizontal pattern in any direction. The elevation pattern is attached.

RF Hazard (Environmental)

Human Exposure measurements were calculated using the OET- 65 equation and the outcome is compliant with FCC 1.1310. Furthermore, the calculation(s) are under 5% of the limit categorically excluding the application from further environmental evaluations.

Above Ground Level Calculation

Calculated Maximum	Calculated Exposure	Percent of Limit
mW/cm ²	mW/cm ²	
0.395	0.001231	0.31%

Building Rooftop Calculation

Calculated Maximum	Calculated Exposure	Percent of Limit
mW/cm ²	mW/cm ²	
0.395	0.019552	4.95%

The management of the shared antenna facilities has in place policies and procedures that control access to areas of possible RF exposure. The station will coordinate with other(s) to comply with access, antenna and/or tower issues related to RF Exposure.

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Broadcast Facility

§73.616 Interference Caused

A calculation using *TVStudy* version 2.2.5 using an LMS database dated 2018-03-20 indicates that there is/may be excessive interference to WPPX-TV and WPSG(TV). Attached hereto, are interference agreements acknowledging and accepting this interference. There is no other excessive interference caused by this application. This study used cell spacing of 2 km and a profile spacing of .5 km and baseline records were excluded if the station(s) has a CP.

§73.622 Maximum ERP and Antenna Height

The application does not exceed the maximum ERP for the specified HAAT.

§73.623 DTV Allotments

The application does not change the DTV Table of Allotments.

§73.625 Coverage of Principal Community

The application's ERP will sufficiently cover New York, New York. RF coverage analysis attached.

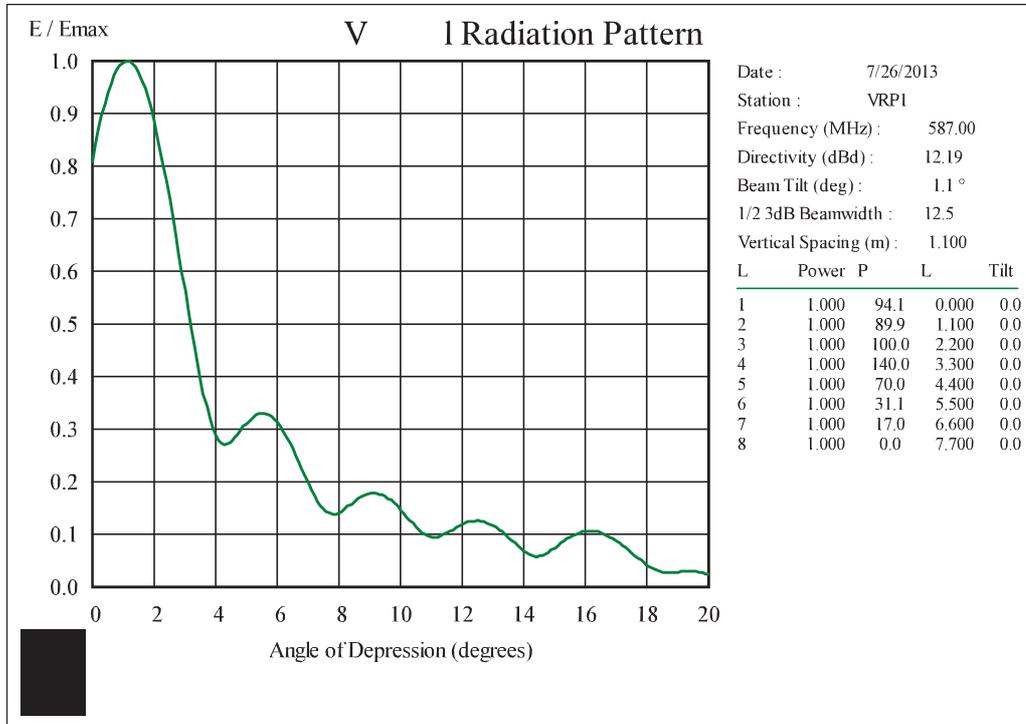
§73.1030 Radio, Research and Receiving Locations

A calculation using *TVStudy* version 2.2.5 using an LMS database dated 2018-03-20 indicates that no excessive interference to any "protected" locations. As such, no coordination or notification is required.

§73.1650 International Agreements

The application's transmit location is 397.2 km from Canada and 2670.8 km from Mexico. As such, no coordination or notification is required.

2.1 Increased Null Fill VRP PEP40E



Increased Null Fill VRP PEP40E- 290713

WPXN-TV.A

Latitude: 40-42-46.80 N
Longitude: 074-00-47.30 W
ERP: 170.00 kW
Channel: 34
Frequency: 593.0 MHz
AMSL Height: 530.4 m
Elevation: 4.3 m
Horiz. Pattern: Omni
Vert. Pattern: Yes
Elec Tilt: 1.1
Prop Model: Longley-Rice
Climate: Cont temperate
Conductivity: 0.0050
Dielec Const: 15.0
Refractivity: 301.0
Receiver Ht AG: 10.0 m
Receiver Gain: 0 dB
Time Variability: 90.0%
Sit. Variability: 50.0%
ITM Mode: Broadcast

Calculation by Clark, S.

