

Application for Modification
Post – Repack Construction Permit
Engineering Exhibit

WWPX-TV – Martinsburg, WV

Facility ID: 23264

Licensee "ION MEDIA MARTINSBURG LICENSE, INC" is currently authorized to operate on Post-Repack DTV channel 13. The Antenna Structure Registration Number is 1062556 with a Latitude of 39° 27' 27.6" N+ and a Longitude of 78° 03' 51.5" W-.

The purpose of this application is to request authority to modify the construction permit (0000034933) to operate from Antenna Structure Registration Number 1280499 with a Latitude of 39° 14' 21" N+ and a Longitude of 77° 46' 16" W-. The HAAT is 327.53 m (AGL 38.1 m) with an AMSL of 490.7 m. An ERP of 4.2 kW will be utilized.

Antenna System

A side mounted directional antenna will be utilized. It will be affixed to an existing guyed tower structure and will not increase the overall height of the structure. Elevation and Azimuth patterns are attached.

RF Hazard (Environmental)

Compliance with RF Hazard (Environmental) is provided in the attached RF Hazard Statement.

Broadcast Facility

§73.616 Interference Caused

A calculation using *TVStudy* version 2.2.5 using an LMS database dated 2019-07-12 indicates that there is no excessive new interference created. This study used cell spacing of 2 km and a profile spacing of 1 km. The baseline record was excluded if the station has an approved 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 Martinsburg, West Virginia. RF coverage analysis attached.

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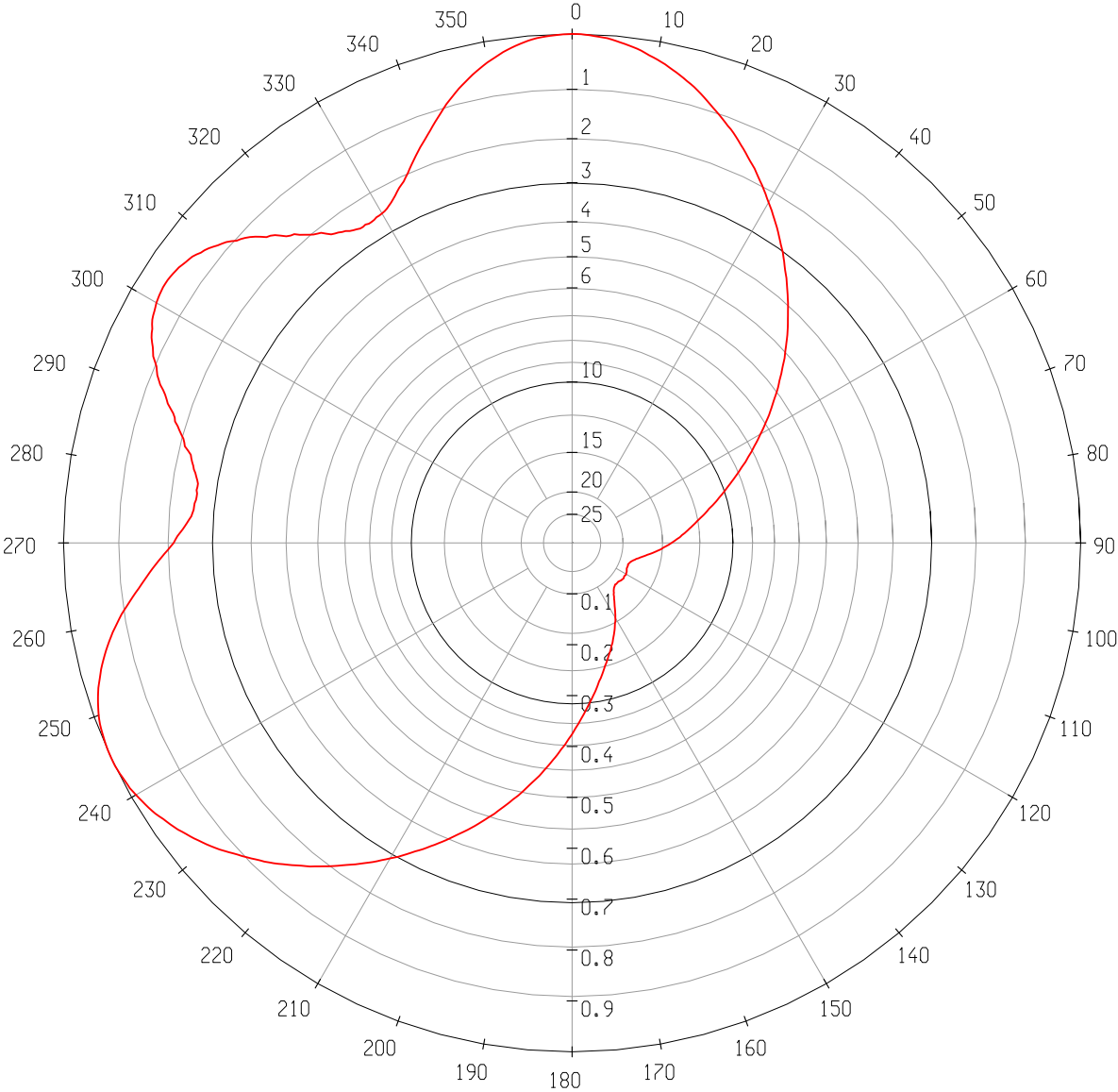
§73.1030 Radio, Research and Receiving Locations

A calculation using *TVStudy* version 2.2.5 using an LMS database dated 2019-07-12 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 400.8 km from Canada. As such, no coordination or notification is required.

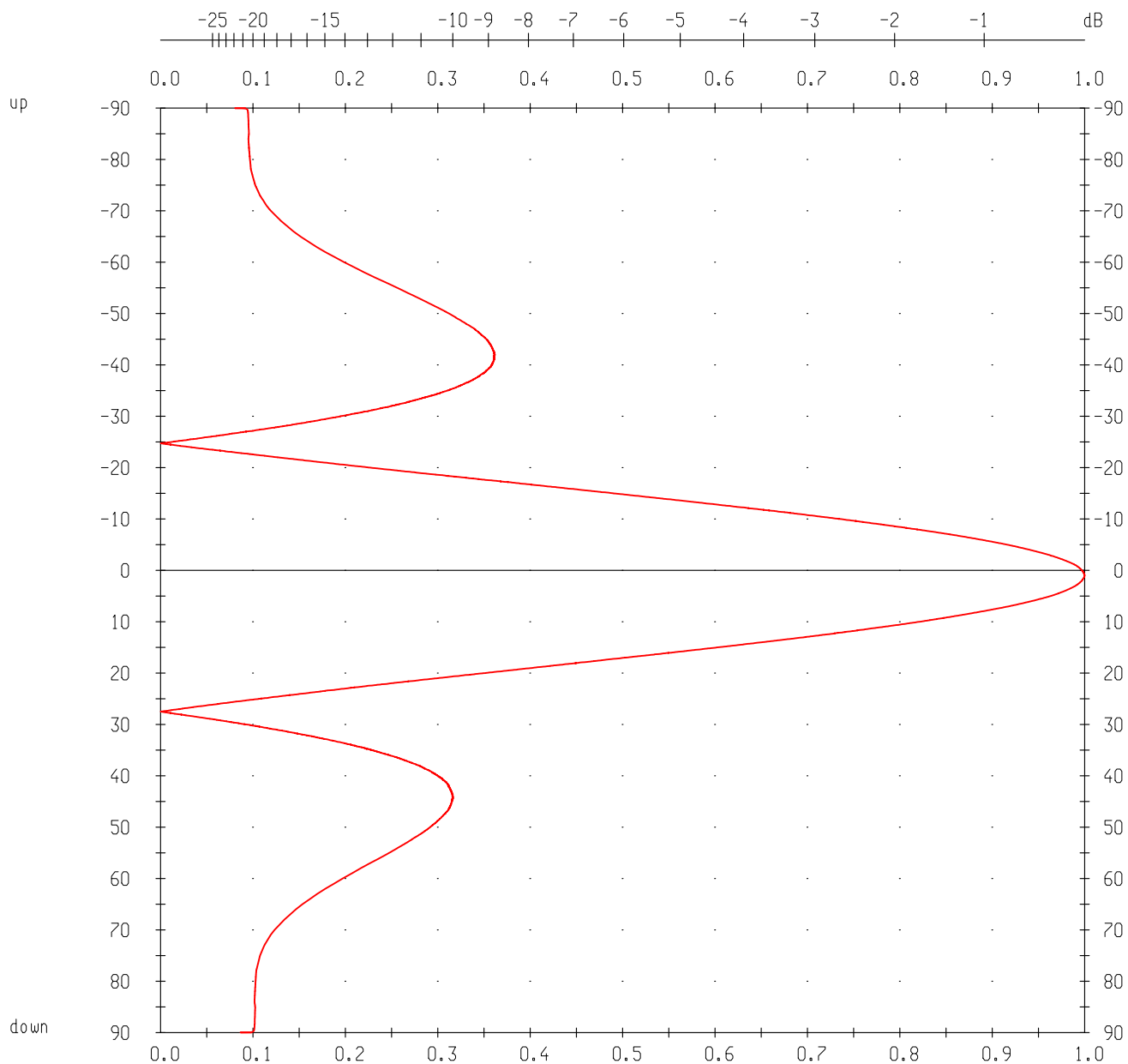
The application’s transmit location is 2312.7 km from Mexico. As such, no coordination or notification is required.



frequency in MHz 213.000
down-tilt in 1.2
max / mean in dB 3.34

<div>KATHREIN</div> <div>Rosenheim Germany</div>		Typ Nr.
		Bl.:
BCA/Mj	4.4.19 14:35	

simulation with typical exactness of +/- 8% of max signal



frequency in MHz 213.000
azimut in 305.0
omni-dir in dBd 4.08

KATHREIN Rosenheim Germany		Typ Nr.
		Bl.:
BCA/Mj	4.4.19 14:35	

Latitude: 39-14-21 N
Longitude: 077-46-16 W
ERP: 4.20 kW
Channel: 13
Frequency: 213.0 MHz
AGL: 38.1 m
HAAT: 327.53 m
AMSL: 490.7 m
Horiz. Pattern: Directional
Vert. Pattern: Yes
Elec Tilt: 1.25

