

WNEU Amended Application for Modification of Post-Repack Construction Permit

February 14, 2018

Purpose and description of Amendment

The purpose of this amendment is to modify the previously filed application (FCC file number 0000034700) for modification of post-repack construction permit (LMS file number 0000026884) for a broadcast facility on channel 29 for WNEU, Merrimack, NH, Facility ID 51864, licensed to NBC Telemundo License LLC.

The requested transmitter site on Antenna Structure Registration No. 1003433, registered to American Tower, LLC, located at 350 Cedar Street (#282685), Needham, MA is not changed, nor is the proposed antenna center of radiation of 416.7 meters and height above average terrain of 374 meters. This amendment rotates the existing (untilted) antenna azimuth pattern by 356 degrees, increases electrical beam tilt from 1.0 degrees to 1.2 degrees and modifies the mechanical beam tilt from 0.1 degrees at 225 degrees to 0.45 degrees at 232 degrees true. Maximum effective radiated power is reduced from 650 kW to 540 kW.

The facility proposed in the amended application will place a Community Grade contour over Merrimack, NH. **A TVStudy 2.2.4 analysis using a cell size of 0.5 km and 1 km terrain profile point spacing of the proposed facility with the provided azimuth and elevation patterns, antenna rotation of 356 degrees and specified mechanical beam tilt of 0.45 degrees at 232 degrees true** showed the maximum amount of new interference created to any post-auction baseline facility, any application filed in the replication and first priority windows, any application filed in the Post-Incentive Auction Second Filing Window and any granted post-auction construction permits in the LMS database dated February 8, 2018 was under 0.5%.

The antenna pattern rotation and tilt modifications reduce the service area contour proposed in the original application in most directions. However, the changes specified here result in the proposed service area contour being extended slightly – less than 500 meters – in areas to the east and northeast, mostly over water. The attached coverage map shows the originally proposed contour as red dots and the amended service area as a solid blue line. The proposed service area is reduced from the 27466.6 square kilometers originally requested to 26282.5 square kilometers in this amendment.