

W41DO-D, New York, New York
Facility ID# 60554
08 November, 2018

Environmental Statement- Application amendment

The proposed construction is not a major environmental action as defined by 47CFR1306 and 1307. No new ground construction or lighting changes are involved and no structure heights or widths are being increased.

RF exposure summary:

Access to this building top site is via one stairway and one elevator. Both are tightly access controlled to authorized personnel only. The public cannot access either that elevator or the stairway at all so any access is deemed occupational. RF warning signs on the exit doors to the roof and on the tower clearly mark the rooftop as a possible high RF exposure area.

The rooftop consists of two levels. The main roof area contains air conditioning and other environmental equipment. It also provides access to the elevator equipment and sway damper rooms which are kept securely locked. The tower structure extends approximately 36 meters above the lower roof. The proposed antenna would be at the same location as the existing W41DO-D antenna.

Height from the highest roof area to the center of the antenna is 14. meters, and assuming a 2-meter height of interest above the rooftop the exposure height to be calculated will be 12 meters. The proposed horizontal ERP of 15.0 kW with circular polarization yields a total of 30.0 kW.

According to the antenna manufacturer the antenna factor for that model is approximately 0.2. Using the general exposure formula $S = (.256)(1.64)(100)(F^2) (ERP)/4\pi R^2$, with an antenna factor of 0.2 yields a power density at rooftop level of $27.8 \mu\text{watts}/\text{cm}^2$, far below the occupational limit for channel 33 of $1957 \mu\text{watts}/\text{cm}^2$ or even the public limit of $391 \mu\text{watts}/\text{cm}^2$.

An information sign at the site lists contact information a crew can use to have W41DO-D emissions reduced or terminated to protect tower crews working in the vicinity of the antenna.

These facts clearly demonstrate that this proposal does not present any significant environmental action or hazard as defined in the FCC Rules and Regulations Part 1 and outlined in OET bulletin 65 & 65a.