

Transmitter Siting & RF Energy Exposure

prepared 1/20/2021 for

Univision New York LLC

WFUT-DT Newark, NJ / WXTV-DT Paterson, NJ

Ch 26 215 kW 397 m

Channel-sharing stations WFUT-DT and WXTV-DT have long operated from the Empire State Building, located in the midtown Manhattan area of New York City, a site hosting numerous other television and FM radio broadcast stations. The proposed modification of construction permit continues operation at that location and is therefore a preferred alternative to new site construction and licensing.

Since the Phase 4 transition date of the FCC's TV channel repacking process, the stations have utilized the Empire State Building's Master UHF Antenna, with an ERP of 195 kW as authorized by STA (LMS file number 0000078251, granted 7/26/2019), pending completion of construction of permanent facilities. The instant modification of construction permit seeks permanent authority to increase ERP to 215 kW and increase electrical beam tilt to 1½°.

The Master UHF Antenna is attached to the tower section of the Empire State Building structure, above the building's iconic "mooring mast". The areas of public access closest to that antenna are the indoor 104th floor Observatory and the open-air 86th floor public Observation Deck. RF energy levels on the Empire State Building's 86th floor public Observation Deck and 102nd floor Observatory are periodically surveyed by the building management's RF consultant. Prior to the Phase 4 cutover date, three stations (WCBS-TV, WNBC-TV, and WWOR-TV) operated from this antenna at a total ERP well above that proposed herein. Measurements taken during that operation showed the composite RF energy exposure level to be within guideline values at the Observation Deck. Accordingly, operation at proposed ERP is not likely to cause exposure above the pertinent guideline value. The building management's RF consultant will perform an exposure survey in these public areas when the instant facility is ready for operation.

Access to the exterior areas of the building at its upper elevations are restricted by locked doorways and access hatches. Appropriate radiofrequency radiation (RFR) advisory signs are posted and there exists a formal RFR exposure protection protocol governing access to the masts and all outdoor areas above the 86th floor public Observation Deck.



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