

February 5, 2024

## **KXTX-TV Application for new auxiliary broadcast facility**

### Engineering Exhibit

The purpose of this application is to request a new digital auxiliary construction permit for KXTX-TV, Dallas, Texas, Facility ID 35994, licensed to NBC Telemundo License LLC on channel 36. This facility will replace the expired KXTX-TV pre-auction channel digital auxiliary construction permit, LMS file number 0000024519.

### Antenna System (Section 73.625(c))

The proposed facility will use a Dielectric TUA-C3-6/18U-1-R DC SM directional, horizontally polarized panel antenna with an effective radiated power (ERP) of 422.1 kW. The question "Does the proposed antenna propose elevation radiation patterns that vary with azimuth for reasons other than the use of mechanical beam tilt?" was checked yes solely to allow uploading the antenna elevation pattern and not because there is any variation in elevation pattern with azimuth. Antenna data required by Section 73.625(c) is attached as a separate exhibit.

### Environmental Statement

The proposed facility utilizes an existing broadband antenna on an existing tower (ASR# 1054150). No new construction is required. The tower is located behind a locked gate with warning signs and is not accessible to the general public.

An RF exposure analysis conducted using the procedures in FCC OET Bulletin 65 demonstrates that the calculated RF power density contribution from the proposed facility anywhere on the ground or on structures up to 61 meters in height does not exceed 0.75 percent of the maximum permissible exposure (MPE) level at 605 MHz (Channel 36) of 0.403 mW/cm<sup>2</sup> for an uncontrolled environment as specified in FCC Rule §1.1310. The proposed facility is not predicted to create fields over the MPE level for an uncontrolled environment at any elevation more than 187 meters from the tower. There are no structures over 61 meters in height within this distance from the tower. The applicant will reduce power or cease operation as required to protect workers from RF exposure above the limits specified in FCC Rule §1.1310.

### Broadcast Facility

*Compliance with Section 73.616:* The contour of the proposed facility is entirely contained within the current licensed contour. No new interference is predicted. (See map)

*Compliance with Section 73.622(c):* The facility will use KXTX-TV's licensed channel.

*Compliance with Section 73.623(e):* Not applicable

*Compliance with Section 73.625:* The proposed contour does not exceed that of the KXTX-TV's licensed contour. (See map)

*Compliance with Section 73.1030:* Not applicable for an auxiliary broadcast facility in this location.

*Compliance with Section 73.1125:* Not applicable for an auxiliary broadcast facility.

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Contour Map

