

Engineering Statement
Proposed Auxiliary Facility on ASR 1059622
KTXH Houston, TX
Channel 19
November 3, 2021

The purpose of this application is to add an auxiliary facility for KTXH Channel 19 Houston, TX.

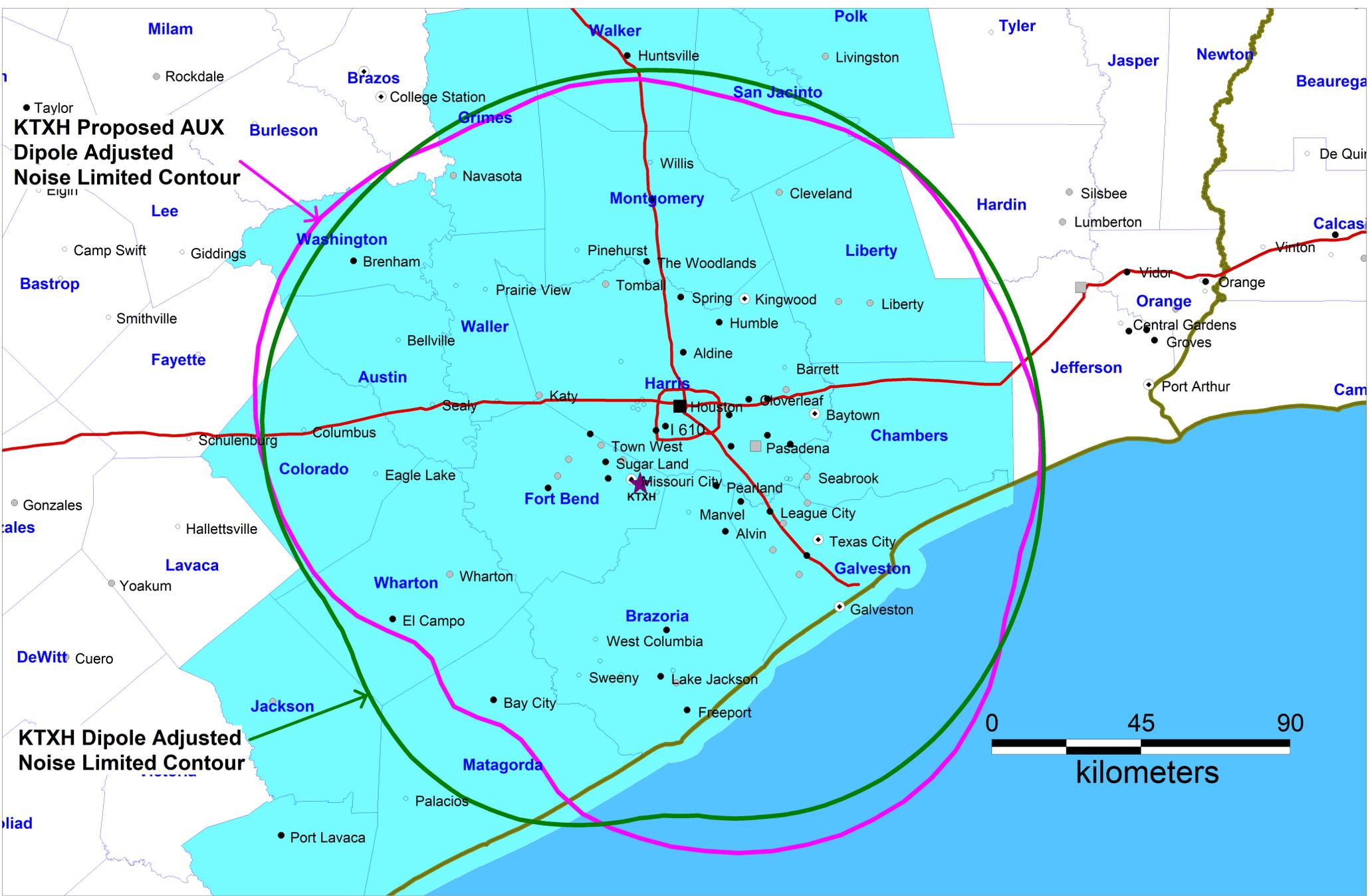
The facility proposed in this application will operate with an effective radiated power (ERP) of 1,000 kW utilizing a shared broadband antenna on the same tower and at the same height as the currently licensed main facility of KTXH.

An analysis using the FCC's TVStudy software with its default settings has indicated that the proposed facility will not cause any new interference to other stations above the allowable de minimis limit. A copy of the TVStudy analysis results file showing no interference is attached to this application.

It is noted the 1,000 kW ERP exceeds the limit for the HAAT (595 meters); however, the licensed KTXH facility (BLCDT20090804ABC) is authorized 1,000 kW ERP with a HAAT of 596 meters and KTXH also currently holds a construction permit for a new main facility with an authorized 1,000 kW ERP with a HAAT of 598 meters. In view of this, the requested ERP should be allowed.

It is further noted, that due to some minor differences between the KTXH licensed antenna pattern and the shared antenna proposed here, there are some minor excursions of the noise limited contour (see Figure 1 below). In that the population in the excursion area is only 0.046% of the current service population, it is requested that the excursion be waived.

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KTXH Ch 19 Houston, TX - Coverage Contour Comparison
Licensed Facility ERP 1,000 kW HAAT 595 m Directional Antenna
Proposed AUX ERP 1,000 kW HAAT 595 m Directional Antenna

Houston, TX DMA

Figure 1