

TECHNICAL SUMMARY

TELEVISION STATION KIAH(TV)
HOUSTON, TEXAS
CHANNEL 34 1000 KW (H), 250 KW (V) 595 M HAAT

1. The instant application is to modify the construction permit for KIAH(TV), Houston, TX (Channel 34).^{*} By means of this application the antenna pattern will be changed from directional to non-directional. There are no other substantive changes proposed.

2. The proposed facility is compliant with the ‘largest station in the market’ provision of Section 73.622(f)(5) of the FCC Rules. It is proposed to operate on Channel 34 with a non-directional ERP of 1000 kW and an antenna height above average terrain (HAAT) of 595 meters. These facilities exceed the normal maximum permissible facilities specified in Section 73.622(f)(8)(i) of the FCC Rules. However, the proposed facilities have been calculated in accordance with the largest station provision of Section 73.622(f)(5) of the FCC Rules. Specifically, the largest station in the Houston market is KTRK-TV, Houston, TX, Channel 13, which is licensed to provide noise-limited 36 dBu, f(50,90) service to an area of 47,360 square kilometers.[†] The proposed KIAH operation is predicted to provide noise-limited 41 dBu, f(50,90) service to an area of 45,470 square kilometers.[‡] Therefore, the proposed KIAH facility is compliant with the largest station provision of the FCC Rules.

3. The instant proposal is compliant with the interference protection requirements of the FCC Rules with the exception of KEYE-TV, Austin, TX. An interference consent agreement is to be arranged with KEYE-TV. The results the FCC’s *TVStudy* analysis are attached hereto as an exhibit. It is noted that use of a higher resolution terrain profile increment of 0.1 km is requested for the *TVStudy* analysis.

^{*} See FCC File No. 0000034047.

[†] KTRK-TV is authorized for operation with a non-directional ERP of 32.4 kW and an antenna HAAT of 588 m.

[‡] Clarification of the largest station provision is provided in the *Report and Order and Further Notice of Proposed Rule Making* in MM Docket No. 00-39 at paragraphs 73-74.