

TECHNICAL SUMMARY

FM BROADCAST STATION KAGZ(FM)

BURKE, TEXAS

CHANNEL 249C2, 32 KW (H&V), 169 M AGL, 248 M AMSL, 166 M HAAT

1. The instant application is for a modification of construction permit to change the transmitting antenna location for the KAGZ(FM) facility. KAGZ holds a construction permit for operation on Channel 249C2 with a nominal non-directional effective radiated power (ERP) of 37 kW (H & V) and an antenna height above average terrain (HAAT) of 164 m.\*

2. As specified herein, the KAGZ transmitting antenna is proposed to be located on the existing tower supporting structure identified with FCC antenna structure registration number (ASRN) 1302151.

3. The KAGZ facility is to employ a Shively model 6813-6 full-wave spaced (EPA Type 1) transmitting antenna. The new transmitting antenna will be side-mounted on the existing tower supporting structure with a radiation center height above ground level of 169 m. There will be no change in the overall height of the existing supporting structure.

4. The new antenna radiation center height above mean sea level is calculated to be 248 m and the antenna HAAT is calculated to be 166 m. The nominal ERP will be 32 kW in compliance with the maximum permissible ERP level for Class C2 stations under Section 73.211(b) of the FCC Rules.

5. As demonstrated in the Allocation Study Tabulation exhibit, the proposed facility is compliant with minimum distance separation requirements of Sections 73.207 with respect to all stations with the exception of: KTHT(FM), Cleveland, TX (Ch. 246C); KTBB-FM, Troup, TX (Ch. 248C3); and, KFNC(FM), Mont Belvieu, TX (Ch. 248C). However, the contour overlap requirements of Section 73.215 of the FCC Rules are met with respect to these three stations as demonstrated in the Allocation Study Map exhibit.

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\* See FCC File No. BPH-20180928ADM. KAGZ was granted a 'one-step' upgrade from Channel 249A to Channel 249C2.