

**RF HAZARD STATEMENT****FM BROADCAST STATION KAGZ(FM)****BURKE, TEXAS****CHANNEL 249C2, 32 KW (H&V), 169 M AGL, 248 M AMSL, 166 M HAAT**

With respect to the potential for human exposure to radio frequency (RF) energy for the proposed KAGZ(FM) transmitting facility, calculations prepared in accordance with FCC Bulletin OET-65 (Edition 97-01) indicate that the proposal will not result in human exposure to RF energy at ground level in excess of FCC standards.\* Power density calculations were conducted based on the FCC's *FMMModel* calculation tool, with the following results:†

| <b>Call Sign</b> | <b>Channel</b> | <b>Average ERP<br/>(kW)</b> | <b>Distance<br/>(m)</b> | <b>Relative<br/>Field<br/>Factor‡</b> | <b>FCC Limit§<br/>(mW/cm²)</b> | <b>Percentage<br/>of Limit</b> |
|------------------|----------------|-----------------------------|-------------------------|---------------------------------------|--------------------------------|--------------------------------|
| KAGZ             | 249            | 32 (H & V)<br>64 (Total)    | 169                     | 0.76                                  | 0.200                          | 22.1%                          |

As indicated above, the exposure to RF energy at 2-m above ground level from the KAGZ facility itself will not exceed 22.1% of the FCC limit for general population / uncontrolled exposure.

There are two other FM broadcast facilities mounted on the tower structure, which are KSWP(FM)\*\* and KAVX(FM)††. As reported in their respective applications for construction permit, FCC Files Nos. BPED-20160822AAX and BPED-20160822AAY, the calculated RF exposure levels from the KSWP and KAVX facilities

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\* See Section 1.1310 of the FCC Rules and Regulations.

† This is based on the FCC *FMMModel* RF calculation tool as updated on June 8, 2018 for the proposed Shively model 6813-6 (EPA Type 1) 6-bay full-wave spaced transmitting antenna to be employed. See attached Figure 1.

‡ This factor is derived from the *FMMModel* results.

§ for general population/uncontrolled environments

\*\* Facility ID 39168.

†† Facility ID 82087.

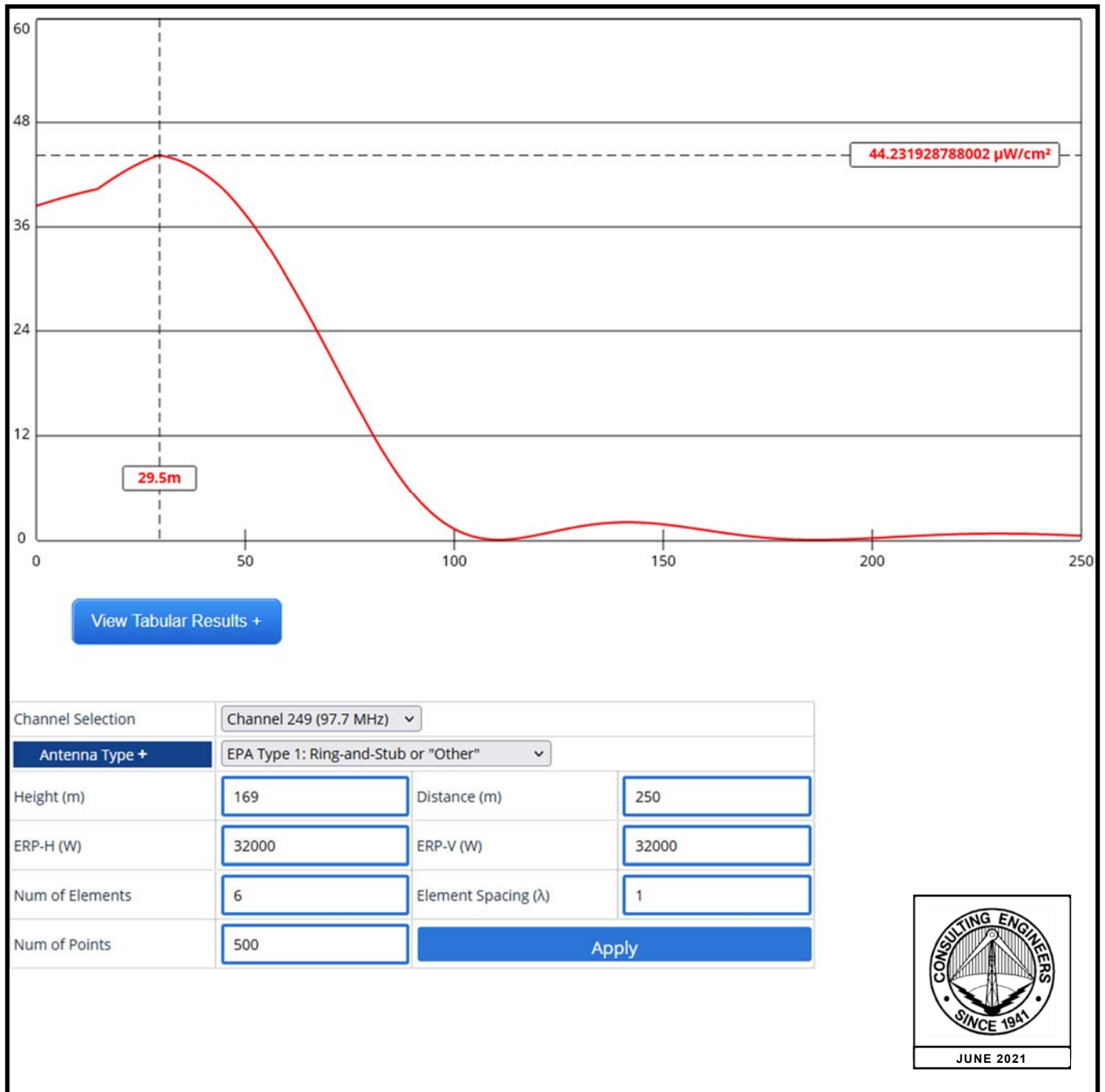
are 2.65% and 0.7%, respectively.<sup>††</sup> The total calculated RF exposure level considering all three FM stations is calculated to be 25.5% of the FCC limit for general population / uncontrolled exposure. Therefore, considering the foregoing, the KAGZ proposal complies with the FCC limits for human exposure to RF energy at the site and it is categorically excluded from environmental processing.

The licensee, in coordination with the other users of the transmission facility, shall reduce power or cease operation as necessary to protect persons having access to the tower or antenna from RF energy in excess of the FCC guidelines.

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<sup>††</sup> See, also, the Applications for License for KSWP and KAGZ, FCC File Nos. 0000087270 and 0000087271, respectively.

Figure 1



## FCC *FMMODEL* RESULTS FOR KAGZ(FM) TRANSMITTING ANTENNA

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