TECHNICAL EXHIBIT
APPLICATION FOR LICENSE
AUXILIARY FACILITY
RADIO STATION KLAQ(FM)
EL PASO, TEXAS
CH 238C 1 KW 400 M

Technical Statement

This Technical Exhibit, of which this statement is part, was prepared on behalf of radio station KLAQ(FM) on Channel 238C at El Paso, Texas in support of a license application for its auxiliary (stand-by) facility (see BXPH-20050511ADT).

Figure 1 is a tabulation of the RF transmission system.

Spurious Emissions Construction Permit Special Condition

The Commission has requested on the KLAQ(FM) construction permit that a spurious emissions measurement program be completed and submitted with the herein application for license. This is because the KLAQ(FM) auxiliary is diplexed with the KHEY-FM auxiliary system on Channel 242C (See BXLH-20050708ABM). However, KLAQ(FM) believes these measurements are not necessary and therefore, the measurements were not completed.

It is noted that herein KLAQ(FM) auxiliary facility is primarily employed for HD Radio implementation. Furthermore, KLAQ(FM) and KHEY-FM cannot simultaneously operate into the antenna system in analog mode. Therefore, the requested spurious measurements could not be completed.

Radiofrequency Electromagnetic Field Exposure Special Condition

The KLAQ(FM) auxiliary facility has been evaluated in terms of potential radiofrequency electromagnetic field exposure at ground level in accordance with OET Bulletin No. 65, *Evaluating Compliance with FCC Specified Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields*. The power density at the base of the tower was calculated using the appropriate procedure contained in Section 2, Supplement A, *Additional Information for Radio and Television Broadcast Stations*, of the Bulletin.

Employing the Commission's *FM Model* program used to predict the maximum ground level electromagnetic field exposure, this type of antenna configuration is predicted to contribute a power density of no more than 6 $\mu W/cm^2$ at ground level. This is approximately 3 percent of the Commission's controlled environment standard. Since the predicted value is less than 5 percent of the Commission's guideline value, consideration of other emitters is not necessary.

Access to the transmitting site is restricted and appropriately marked with warning signs. In the event that workers or other authorized personnel enter restricted areas or climb the tower, appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure.

Charles A. Cooper

May 18, 2007

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Figure 1

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KLAQ(FM) Auxiliary RF Transmission System Specifications

Description	System
Transmitter Power Output (0.53 kW):	-2.8 dBk
Transmission Line Loss:	0.5 dB
ERI SHPX-4AC-SP Antenna Gain (2.1 Power Gain):	3.3 dB
Effective Radiated Power (1 kW):	0.0 dBk