

Engineering Statement
In Support of an Application for License
K237GG ó Denver, Colorado
FID No. 141906
BPFT-20160129AFH

The Corporate Engineering Department of the Crawford Broadcasting Company, on behalf of its subsidiary, KLZ Radio, Inc. (óKLZö), has prepared this Engineering Statement and associated exhibits to accompany an Application for License to cover Construction Permit File Number BPFT-20160129AFH for FM Translator Station K237GG (formerly K277BR), Denver, Colorado (FID No. 141906).

The Construction Permit contains a number of special operating conditions or restrictions. These are addressed herein as follows:

- 1. The permittee/licensee in coordination with other users of the site must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines. KLZ will coordinate with other site users and reduce power or cease operation as necessary.*
- 2. Prior to commencing program test operations, FM Translator or FM Booster permittee must have on file at the Commission, FCC Form 350, Application for an FM Translator or FM Booster Station License, pursuant to 47 C.F.R. Section 74.14. The required Form 350 is submitted herewith.*
- 3. BEFORE PROGRAM TESTS COMMENCE, sufficient measurements shall be made to establish that the operation authorized in this construction permit is in compliance with the spurious emissions requirements of 47 C.F.R. Sections 73.317(b) through 73.317(d). All measurements must be made with all stations simultaneously utilizing the shared antenna. These measurements shall be submitted to the Commission along with the FCC Form 350-FM application for license. K237GG will not share an antenna with any other station. Figure 1 herein shows the new K237GG antenna, a Scala HDCA-10H, mounted on a monopole by itself. An existing antenna for K268CK was removed in preparation for the move authorized in BPFT-20151221CEC (see Figure 2 below). While there are several other antennas at the site that may share the same whole-second latitude and longitude as K237GG, those antennas are mounted on other structures at the site 25 or more feet from the K237GG antenna (see Figure 2). Since there is no combined operation, there is no need for spurious emissions measurements as a part of this license application.*
- 4. Since the application proposed to mount its antenna above the co-located existing directional antenna of K213EG, Littleton, CO (Facility ID No. 140229), the permittee must submit, with the FCC Form 350, application for license, an exhibit including a statement from the manufacturer of K213EG's directional antenna, stating that the proposed antenna will have no adverse effect on the aforementioned directional antenna pattern. This condition presumes that the K237GG antenna will be mounted above the K213EG and on the same*

structure. In fact, while the K237GG construction permit and the K213EG license specify the same whole-second latitude and longitude, the two antennas are in fact located 30 feet apart on separate support structures. Figure 1 below shows the new K237GG antenna mounted by itself on a monopole. The land mobile antenna below it in the photo is the only other antenna mounted above or below. Consequently there will be no effect upon the K213EG pattern, and no need for a letter from the antenna manufacturer.

5. *Warning signs which describe the radiofrequency electromagnetic field radiation hazard must be posted at appropriate intervals. Access must be restricted to prevent the exposure of humans to RF emissions in excess of the FCC guidelines (OET Bulletin No. 65, Edition 97-01, released August 1997). Permittee shall submit documentation of compliance with this special operating condition when filing FCC Form 350, application for license. Warning signs are posted at intervals around the perimeter of the site in publicly-accessible areas as denoted by white arrows in Figure 2 below. The perimeter of the site is fenced and kept locked so that there is no public access to areas in which RF emissions may exceed FCC guidelines.*



Figure 1 - K237GG Antenna



Figure 2 - Site Photo Denoting RF Warning Signs

Respectfully submitted,

A handwritten signature in black ink, appearing to read "W.C. Alexander".

W.C. Alexander, CPBE, AMD, DRB
Director of Engineering
Crawford Broadcasting Company