

***COMPREHENSIVE TECHNICAL EXHIBIT
APPLICATION FOR LICENSE***

**FM TRANSLATOR STATION
K296GK - PLEASANTON, TEXAS
107.1 MHz / 0.25 kW ERP ND**

WILDCATTER WIRELESS, INC.

JANUARY, 2014

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JEREMY RUCK & ASSOCIATES, INC.

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1.14.2014

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APPLICATION FOR LICENSE

The following engineering statement and attached exhibits have been prepared for **Wildcatter Wireless, Inc.** ("Wildcatter"), permittee of FM translator station K296GK at Pleasanton, Texas, and are in support of their application for license to cover construction authorized under BNPFT-20130830AOI.¹

The facility was constructed in accordance with the terms of the construction permit. In addition, the materials and techniques utilized in the installation are in accordance with good engineering practice. The construction permit as issued listed three special conditions or restrictions.

The first of the special conditions requires that KWMF, on which the antenna is located, operate by the indirect method during installation, and that a partial proof of performance be completed and submitted to the Commission. Wildcatter complies with this special condition, as the requisite partial proof of performance has been completed. The partial proof of performance for KWMF will be filed via their legal counsel as a paper filing.

The second special condition or restriction pertains to RF safety protection of users of the site. Wildcatter certifies that it will coordinate with all other users of the site to protect workers and other personnel, and ensure that they are not exposed to levels of radiofrequency radiation in excess of applicable safety standards. Such coordination will include, but is not necessarily limited to, a reduction in the transmitter power output or a cessation of operation.

¹ The Facility ID for K296GK at Pleasanton, Texas is 140646.

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The third and final special condition pertains to the submission of this application for license. Under that condition, this application is required to be filed prior to the commencement of program tests. Wildcatter is cognizant of this requirement, and will not commence program tests of the translator until this application is filed.

The specified transmitter power output achieves the authorized effective radiated power. The authorized ERP is 250 Watts. K296GK utilizes a Shively Labs model 6812B-1 antenna. The manufacturer of this antenna specifies a gain for the antenna of 0.4611. The input power required to achieve the authorized effective radiated power is therefore 542 Watts. This is a non-directional antenna.

Ahead of the antenna is the transmission line run, which consists of 280 feet of Andrew LDF4-50A. Data from the manufacturer indicates an efficiency of this run of line as being 63.83 percent. The necessary input power to the transmission line is 849 Watts.

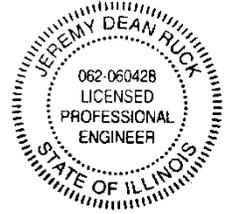
The output of the transmitter is connected to the input to the transmission line. Therefore, the required power at the input of the transmission line is the transmitter power output. Since the value specified here is equivalent to that provided on the form pages, it can be seen that the specified transmitter power output achieves the authorized effective radiated power.

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The preceding statement and attached exhibits have been prepared by me, or under my direction, and are true and accurate to the best of my belief and knowledge.



Above signature is digitized copy of actual signature
License Expires November 30, 2015

Jeremy D. Ruck, PE
January 14, 2014

JEREMY RUCK & ASSOCIATES, INC.

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