

**Comprehensive Technical Exhibit**  
*Application for License*  
KCPM-DT - Grand Forks, North Dakota  
G.I.G. of North Dakota, LLC  
April, 2010

**Application for License**

The following engineering statement and attached exhibits have been prepared for **G.I.G. of North Dakota, LLC** ("GIG"), permittee of digital television station KCPM at Grand Forks, North Dakota, and are in support of their application for license to cover the construction permit for post-transition DTV facilities.<sup>1</sup>

On June 9, 2010, GIG was granted construction permit BPCDT-20100428ABG, which was to expire at 3:00 AM local time on June 12, 2010. The tardiness of the construction of KCPM is a result of severe financial hardship that has previously been discussed. GIG was, however, able to conclude the necessary modifications to its transmitter for DTV operations on June 11, 2010. Thus, construction on the facility was completed prior to the expiration of the construction permit.

The transmitter was converted to operate with a transmitter power output of 0.55 kW digital, as discussed in the application for construction permit. The transmitter feeds 310 feet of Andrew HJ7-50A 1 5/8" air dielectric semi-flexible transmission line with an insertion loss of 1.56 dB at the channel of operation. The antenna, per the manufacturer's data, is an omnioid pattern with a peak gain of 14.61 dB relative to a half-wave dipole. The resulting ERP is 10.45 dBk or 11.1 kW.

The main studio location complies with the provisions of Section 73.1125 of the Commission's Rules. It is located within the community of license. This location is also clearly within the principal community coverage contour of multiple facilities licensed to Grand Forks, North Dakota.

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<sup>1</sup> The Facility ID for KCPM at Grand Forks, North Dakota is 86208. Constructed facilities are interim facilities as will subsequently be discussed.

The facility was constructed in accordance with the terms of the construction permit. Modifications to authorized parameters typically permissible under Section 73.1690 of the Commission's Rules are not applicable in this instance. The facility was constructed at the parameters authorized in the construction permit.

The construction permit as issued contained two special conditions or restrictions. These special conditions or restrictions will each be addressed individually. The first condition deals with a future upgrade of the facility, while the second condition pertains to healthcare notification requirements.

Under the first special condition, the Commission advises GIG that within six months of the date of the grant of this application i.e. December 9, 2010, it must file an application for construction to further modify the facilities of KCPM. Said modification must substantially increase the coverage area and/or population served by the facility such that it is much more consistent with the Appendix B allocation. Upon a grant of the subsequent application, construction must commence immediately and be completed as expeditiously as possible.

GIG certifies that it will immediately commence the design of a further upgraded facility, which may require the relocation of the transmitter plant. The smaller coverage area conditionally authorized under BPCDT-20100428ABG was, in part, a consequence of changes in the height of the tower leased by GIG. Upon a grant of the subsequent application, which will be filed within the required time frame, GIG will complete construction as expeditiously as possible within the tenets of good engineering practice.

The second special operating condition pertains to the identification and notification of health care facilities potentially affected by the operation. GIG will comply with this special condition in total. Appropriate records and actions will be taken should they become necessary prior to the lapse of this special condition.

Although not listed as a special condition on the construction permit, GIG certifies that it will coordinate with all present and future users of the site to ensure that workers having access to the facility are not exposed to levels of non-ionizing radiation in excess of applicable safety standards. Such coordination will include, but is not necessarily limited to, a reduction in transmitter power and or cessation of operation as necessary.

The transmitter in use by the facility complies with the provisions of Section 73.1660 of the Commission's Rules. Appropriate proof data for the facility is contained within the public file. The facility will commence operation pursuant to the automatic program test authority provisions of the Commission's Rules. The specified transmitter power output achieves the authorized effective radiated power as previously demonstrated.

**Affidavit**

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, 2011

**Jeremy D. Ruck, PE**  
**June 16, 2010**