

**Comprehensive Technical Exhibit**  
*Application for License*  
KXMC-DT – Minot, North Dakota  
Reiten Television, Inc.  
June, 2009

**Application for License**

The following engineering statement and attached exhibits have been prepared for **Reiten Television, Inc.** ("Reiten"), licensee of digital television station KXMC-DT at Minot, 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 2, 2008, Reiten was granted construction permit BPCDT-20080320AEJ, which modified BLCDT-20031008ABK. KXMC-DT operated on channel 45 during the pre-transition period. In the post-transition environment KXMC-DT would operate on physical channel 13, which is the channel that was utilized for analog operations. This application seeks to license the flash-cut performed by the facility.

The main studio for the facility complies with the provisions of Section 73.1125 of the Commission's Rules. The main studio is located at 2121 2<sup>nd</sup> Street SE in Minot, North Dakota. This address is located within the corporate boundaries of the city of Minot and also within the principal community coverage contour of several Minot broadcast facilities.

The facility was constructed in accordance with the terms of the construction permit. Modifications pursuant to Section 73.1690 are not applicable in this case. The construction of the post-transition facility involved replacing the transmitter and associated equipment. No change in the antenna or transmission line was made as they were utilized for analog NTSC operations.

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<sup>1</sup> The Facility ID for KXMC-DT at Minot, North Dakota is 55685.

The construction permit, as issued, listed two special conditions or restrictions. Reiten is in compliance with both of these restrictions. Each will be discussed in this technical exhibit.

The first special condition or restriction pertains to the notification requirements by Reiten to healthcare facilities in the vicinity of Minot. The applicant certifies that it has made a good faith effort to identify and notify health care facilities that may be impacted by its operation. Documentation pertaining to the identification and notification of these facilities has been placed in the station's public file, and is available for inspection. Should any issues arise during the twenty day period described in the condition, a reasonable attempt to resolve the problem will be undertaken.

The second special condition notifies Reiten that operation authorized under the construction permit cannot commence prior to midnight on February 17, 2009, or by any other date as the Commission may establish in the future. The applicant did not seek authorization from the Commission to terminate analog service early, and was thus bound by the revised termination date of June 12, 2009. Reiten certifies that it did not commence digital operations pursuant to the construction permit prior to the June 12 transition date.

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 specified transmitter power output achieves the authorized effective radiated power. The antenna in use by the facility is a Dielectric Communications TW-12A13R traveling wave style antenna. The power gain of this antenna, as specified by the manufacturer is 12 or 10.79 dB. In order to achieve the authorized effective radiated power, the antenna input power must be 1.34 kW

or 1.28 dBk. The transmission line feeding the antenna has an insertion loss of 0.73 dB, thus the input power to the line must be 1.59 kW. The input to the transmission line is at the output of the transmitter, thus the specified transmitter power output achieves the authorized effective radiated power.

**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, 2009

**Jeremy D. Ruck, PE**  
**June 13, 2009**