

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

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Digital Companion Channel Facility K18NQ-D  
1.64 kW ERP DA / Channel 18  
Rhineland, Wisconsin

Digital Networks-Midwest, LLC

September 2020

## **APPLICATION FOR LICENSE**

The following engineering statement has been prepared for **Digital Networks-Midwest, LLC** ("Midwest"), licensee of low power television station K32GF at Rhinelander, Wisconsin, and permittee of digital companion channel facility K18NQ-D at Rhinelander, Wisconsin, and is in support of their application for license to cover the construction of the companion channel facility. This application seeks to cover the construction authorized under LMS File No. 000099166.

Under the referenced construction permit, the digital companion channel facility is authorized to operate on television channel 18 with a maximum effective radiated power of 1.64 kW at a center of radiation of 586.2 meters above mean sea level, 30.5 meters above ground level, utilizing a composite directional array. The authorized, and constructed, array consists of two (2) Kathrein-Scala PR-TV antennas. One of these antennas is oriented at 150 degrees true with the other oriented at 310 degrees true. Equal power division between the two elements is employed. Midwest has completed construction of the facility utilizing the authorized parameters. The installed equipment achieves the authorized effective radiated power.

The construction permit, as issued by the Commission, lists one special condition or restriction. This condition advises Midwest that the authorization in question is for low power television, and as such, is a secondary authorization. Midwest is cognizant of the interference requirements imposed on it by the authorization, and will comply.

Midwest certifies that it will protect workers and other personnel from being exposed to levels of radiofrequency radiation in excess of the applicable safety standards, and will coordinate

JEREMY RUCK & ASSOCIATES, INC.

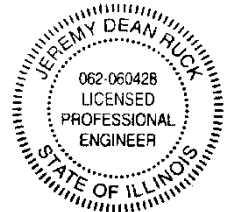
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**9.9.2020**

with all other users of the site. Coordination efforts will include, but are not necessarily limited to a reduction in transmitter power or cessation of operation.

The preceding statement has been prepared by me, or under my direction, and is true and accurate to the best of my belief and knowledge.



Above signature is digitized copy of actual signature  
License Expires November 30, 2021

Jeremy D. Ruck, PE  
September 9, 2020

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