

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

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Low Power Digital Television Facility K31PO-D  
2 kW ERP DA / Channel 31  
Des Moines, Iowa

Digital Networks-Midwest, LLC

September 2021

## **APPLICATION FOR LICENSE**

The following engineering statement has been prepared for **Digital Networks-Midwest, LLC** ("Midwest"), licensee of digital low power television station K31PO-D at Des Moines, Iowa, and is in support of their application for license to cover the authorized modification to the facility.<sup>1</sup> This application is being filed to cover the construction permit assigned LMS File No. 0000157806.

Under the referenced construction permit, K31PO-D is authorized to operate on television channel 31 with a maximum effective radiated power of 2.0 kW at a center of radiation of 335.9 meters above mean sea level, 33.5 meters above ground, utilizing a composite directional antenna. The composite antenna consists of two Kathrein-Scala PR-TV antennas. One of these antennas is oriented at 60 degrees true, while the other is oriented at 225 degrees true. Equal power division is employed between both antennas. 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 is a Low Power Television authorization, and as such, is secondary. Midwest is cognizant of the interference requirements imposed on it by the authorization, and will comply, as required.

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

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<sup>1</sup> The Facility ID for K31PO-D at Des Moines, Iowa is 67879.

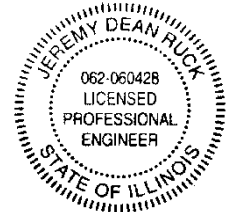
JEREMY RUCK & ASSOCIATES, INC.

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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 26, 2021

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9.26.2021