

***TECHNICAL EXHIBIT  
APPLICATION FOR LICENSE***

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Digital Low Power Television Facility KJLN-LD  
2.0 kW ERP DA / Channel 29  
Joplin, Missouri

Digital Networks-Midwest, LLC

April 2021

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JEREMY RUCK & ASSOCIATES, INC.

P.O. Box 415  
221 S. 1st Avenue  
Canton, IL 61520

Tel: 309.647.1200  
Fax: 855.332.9537  
jeremyruck.com

**4.6.2021**

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## **APPLICATION FOR LICENSE**

The following engineering statement has been prepared for **Digital Networks-Midwest, LLC** (“Midwest”), licensee of digital low power television facility KJLN-LD at Joplin, Missouri, and is in support of their application for license to cover authorized modifications to that facility.<sup>1</sup> This application is being filed to cover the construction authorized under LMS File No. 0000134302.

Under the referenced construction permit, the facility is authorized to operate on television channel 29 with a maximum effective radiated power of 1.5 kW at a center of radiation of 304.3 meters above mean sea level utilizing a composite directional antenna array. The array utilized by the facility is comprised of two Kathrein-Scala PR-TV antennas. One of these antennas is oriented at 100 degrees true, with the other oriented at 280 degrees true. Equal power division is employed between the individual antennas in this array. Midwest has completed construction of the facility utilizing the authorized parameters.

The construction permit as issued by the Commission, lists one special condition or restriction. This condition states that the authorization in question is for the low power television service. As such, this authorization is secondary, and Midwest may not cause impermissible interference to primary facility. Additionally, Midwest must also accept any such interference. Midwest is cognizant of the requirements of this condition, and will abide by the same.

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 KJLN-LD at Joplin, Missouri is 190289.

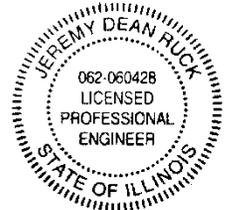
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with all other users of the site. Coordination efforts will include, but are not necessarily limited to a reduction in transmitter power or cessation of operation.

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  
April 6, 2020

JEREMY RUCK & ASSOCIATES, INC.

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221 S. 1st Avenue  
Canton, IL 61520

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jeremyruck.com