

***TECHNICAL EXHIBIT
APPLICATION FOR LICENSE***

Digital Low-Power Television Station W16EH-D
4.25 kW ERP DA / Channel 16
Raleigh, North Carolina

Digital Networks-Southeast, LLC

July 2020

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JEREMY RUCK & ASSOCIATES, INC.

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7.10.2020

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APPLICATION FOR LICENSE

The following engineering statement has been prepared for **Digital Networks-Southeast, LLC** (“Southeast”), licensee of low power television station W45CN at Rocky Mount, North Carolina, and permittee of digital low power companion channel facility W16EH-D at Raleigh, North Carolina, and is in support of their application for license to cover initial construction of that facility. This application is being filed to cover the construction permit assigned LMS File No. 0000115820.

Under the referenced construction permit, W16EH-D is authorized to operate on television channel 16 with a maximum effective radiated power of 4.25 kW at a center of radiation of 141.1 meters above mean sea level, 57.9 meters above ground level, utilizing a composite directional antenna. The antenna authorized and utilized by the facility is a composite directional antenna, which consists of three Kathrein-Scala PR-TV antennas. Two of these antennas are oriented at 80 degrees, with the remaining antenna oriented at 260 degrees true. Equal power division between the three antennas is employed. Southeast 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 Southeast that the authorization is a Low Power Television authorization, and as such, is secondary. Southeast is cognizant of the interference requirements imposed on it by the authorization, and will comply, as necessary.

Southeast 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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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
July 10, 2020

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