

Exhibit 1: Description of Hocking Valley Community Hospital - White Spaces Network Program of Research and Experimentation

Spectrum Bridge respectfully requests the issuance of an experimental license using the equipment and operating parameters set forth in its application for an experimental license (FCC File No. 0348-EX-PL-2010) (the "Application"). Grant of this license will enable Spectrum Bridge and Hocking Valley Community Hospital to conduct research and experimentation using vacant spectrum in the television broadcast bands (the "TV white spaces") for the testing of fixed white spaces devices.¹

Hocking Valley Community Hospital is working jointly with Spectrum Bridge in investigating the usefulness of available white space (UHF/VHF) spectrum for use in telemedicine applications – indoor telemetry, medical records exchange (M2M applications) and enhanced wireless broadband access for doctors, patients, and visitors residing within the hospital campus. An indoor and outdoor network will be co-located (on different, available white space channels) within the hospital campus to allow comparisons between indoor and outdoor propagation capability and potential.

Spectrum Bridge will serve as a white space data base provider and assist in insuring compliance with the FCC's proposed white space rules. Although the request is for frequencies spans the UHF portion (470-698 MHz) of the white space band, only channels permitted for use by proposed FCC rules will be utilized. These channels are shown as follows:

Fixed spoke devices will be located within the immediate area (2 km radius) of the base station location specified in the Application, and the total deployment will not exceed 15 spoke portable/fixed devices which will communicate directly with the indoor or outdoor base station located at the hospital premises.



¹ See *Unlicensed Operations in the TV Broadcast Bands; Additional Spectrum for Unlicensed Devices, Below 900 MHz and the 3 GHz Band*, Second Report and Order and Memorandum Opinion and Order, 23 FCC Rcd 16807 (2008).

Spectrum Bridge will provide the necessary hardware and software to conduct these experiments. The proposed experiment will utilize fixed stations with the following parameters:

Lower and upper frequencies and frequency units	470-698 MHz (channel size 6 MHz)
ERP and ERP units	2 watts
Frequency tolerance	< 1 ppm
Station class (i.e., fixed or mobile).	Fixed

The equipment to be used for these experiments is manufactured by Spectrum Bridge. The solution incorporates a fixed “base station” connected to the internet via a T1, cable modem or a DS3 connection. The base stations (hubs) provide broadband connections (approx 3 Mbits/sec (using an OFDM/FSK modulation) to a number of fixed/portable client devices that provide wireless connectivity. One goal is to show how UHF operation, combined with 6 MHz channels of TV white space provides a practical solution to providing broadband connectivity within and throughout an industrial building complex. It is the intention of Hocking Valley Community Hospital to upgrade the radios to commercial FCC-certified white space radios, when the rules and certification process is complete, to maintain services the services within the hospital. The experiment is expected to last approximately 12 months.

As previously mentioned, these experiments will use White Space radios controlled by a white spaces database managed by Spectrum Bridge. These experiments are expected to facilitate fixed operations in the white spaces without causing harmful interference to incumbent television stations. The Hocking Valley Community Hospital white space networks will not transmit on any channel or in a manner that impacts an incumbent television licensee entitled to interference protection. In the unlikely event that a potential interference issue arises, the following persons should be contacted:

Jeff Schmidt, Director – Engineering, Spectrum Bridge 407.792.1570

LeeAnn Lucas-Helber, President, Hocking Valley Community Hospital 740.380.8000

The Commission has indicated that it expects the availability of white space spectrum will promote the development and deployment of innovative new services. It is expected that these experiments have a reasonable promise of contribution to the development of white space technologies and policy. Spectrum Bridge and Hocking Valley Community Hospital also believe that this research effort will further these goals by testing the viability of new applications and acquiring test data while insuring interference-free operation.

Spectrum Bridge and its partners fully anticipate that these experiments will further the development of innovative white spaces applications, and respectfully requests expedited processing of the Application.