

DigitalBridge Communications
Application for Special Temporary Authorization
Sugar Grove, West Virginia
File No: 0347-EX-ST-2006

Explanation of Spectrum Requested:

This demonstration uses experimental WiMAX equipment produced by Alvarion. The transmitters have an uplink frequency and a downlink frequency. The equipment is designed to operate across a band of frequencies, but when it is actually in use, the transmitters actually use only a small fraction of each band. One of the reasons for this demonstration is to test for the right frequency pairings for the local conditions.

After installation of the equipment, the first tests performed will be to determine which frequencies within the band are best for use at the Sugar Grove demonstration. Once that test is complete, DigitalBridge will file an amendment to limit its use of frequencies to the uplink and downlink pair that is best for the situation. Without real-world testing, it is not possible to know in advance which pairing would work most effectively, and so DigitalBridge has requested that this STA cover the whole uplink and downlink bands to allow for testing.