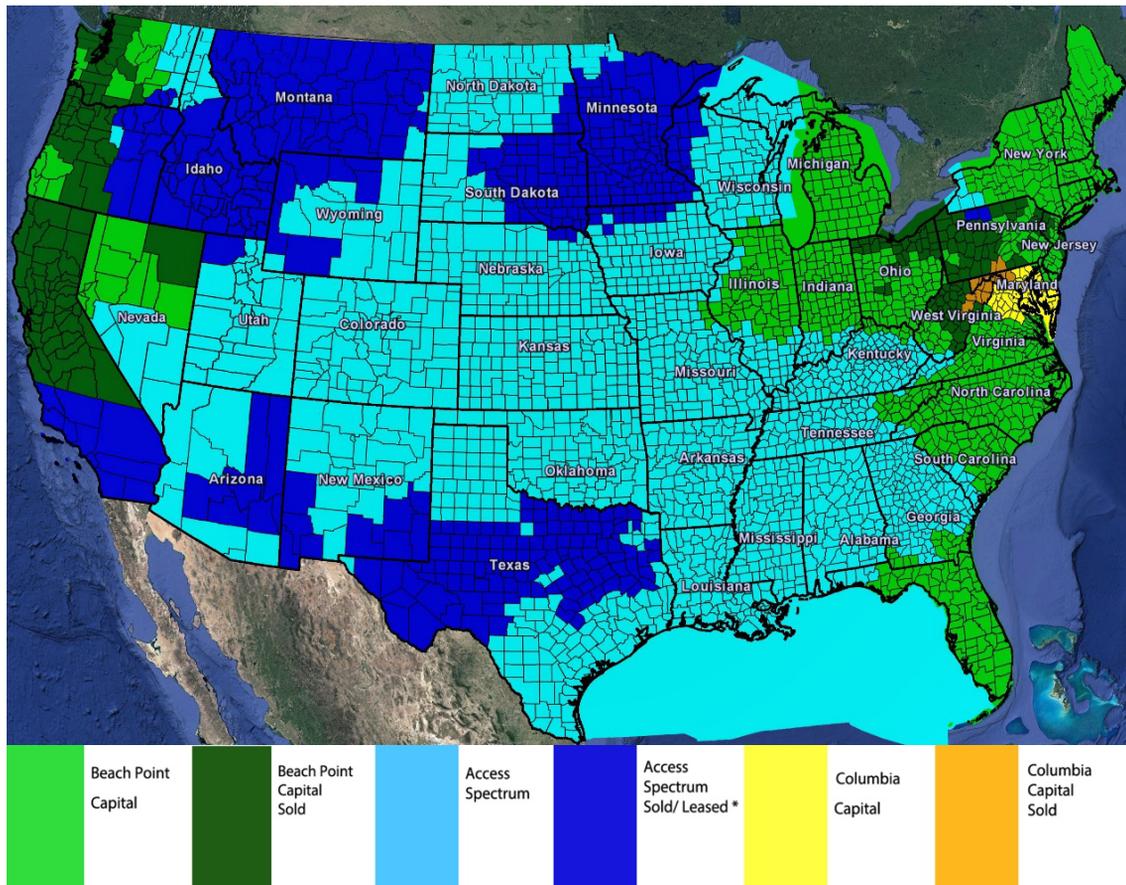


## Wireless Communications in the Upper 700 MHz A Block Band Ideal for Utility, Critical Infrastructure and Rail Applications Available Nearly Nationwide

Select Spectrum represents Beach Point Capital which holds 2 x 1 MHz of **Upper 700 MHz A Block FCC licensed spectrum** across 21 Major Economic Areas (MEAs). After the sale of portions of its holdings to FirstEnergy, Idaho Power Company, Portland General Electric, Puget Sound Energy, National Grid and the California High Speed Rail Authority, the remaining BPC licenses cover 40% of the population of the United States. The other two historical license holders in the band are Dominion 700, which Select Spectrum also represents, and Access 700. To date, all three license holders combined have sold licenses covering nearly 88 million people, (approximately 27% of the total U.S. population), and licenses covering the remaining 73% are available for purchase. BPC will sell its licenses, which cover over 129 million people, together or individually and will partition its licenses to match buyer/lessee requirements to the county level.



**Contact: Robert Finch, [rfinch@selectspectrum.com](mailto:rfinch@selectspectrum.com), (571) 287- 8720**

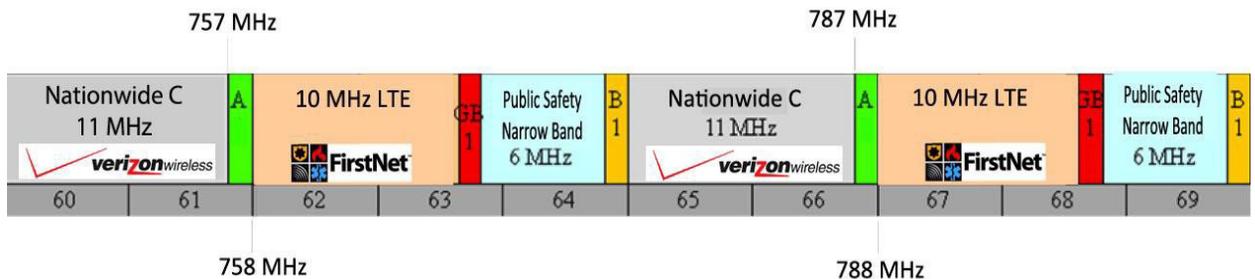
Visit our website at <http://selectspectrum.com> to learn more

**The A Block spectrum can be used for a broad range of applications including broadcast or two-way, fixed or mobile data, voice or video.** Networks may employ point-to-point, point-multipoint (tall site) and/or cellular architectures. Engineers recommend the spectrum for small-cell deployments requiring good building penetration.

BPC has announced its Critical Infrastructure Network Expansion Initiative “CINEI” to construct regional systems using its unsold licenses to demonstrate the spectrum’s excellent propagation and performance and is seeking utility, critical infrastructure, and rail users to participate.

The Upper 700 MHz A Block spectrum is located between 757.0 and 758.0 MHz and between 787.0 and 788.0 MHz and has excellent propagation characteristics.

FCC Upper 700 MHz Band Plan  
Available A Block License Shown in Green



The Electric Power Research Institute, the WiMAX Forum, UTC and manufacturers are also supporting the development of the **IEEE 802.16s GRIDMAN Standard** for equipment using the band and use of the band is also under consideration for the **3GPP LTE Narrowband IOT Standard**.

The spectrum is ideal for machine to machine (Internet of Things) applications, critical infrastructure networks, control of unmanned aerial vehicles and innovative wireless entertainment companies.

Maximum downlink power is 1000 Watts ERP at 1000 feet, and maximum uplink power is 30 Watts ERP. Maximum out of band emissions limits of 43 + 10log (P) dB apply to the A Block and the adjacent 11 x 11 MHz Upper 700 MHz C Block where Verizon operates a nearly nationwide 10 MHz paired LTE network. The A Block is similarly protected from interference from the adjacent public safety broadband channels at 758-768 MHz and 788-798 MHz. These frequencies were granted to FirstNet which Congress established to construct a national first responder LTE network. AT&T has been selected as the prime supplier to FirstNet; no construction schedule has been released.

Pt-Multipoint and Pt-Pt Wireless Equipment for this band is made by Full Spectrum [www.fullspectrumnet.com](http://www.fullspectrumnet.com), 4RF [www.4rf.com](http://www.4rf.com), GE MDS [www.gedigitalenergy.com](http://www.gedigitalenergy.com), ConVergence Technologies [www.converge-tech.com](http://www.converge-tech.com), XetaWave [www.xetawave.com](http://www.xetawave.com), ABB <http://www.abb.com/>, MiMOMax [www.mimomax.com](http://www.mimomax.com), Cambium <http://www.cambiumnetworks.com>, PowerTrunk <http://www.powertrunk.com/>, and Tait Communications <https://www.taitradio.com>. Other manufacturers are considering upgrading their existing lines of equipment to make use of this band. The licenses are valid through July, 2019 when they will be renewed by the FCC for \$290 per license. To be eligible for renewal, license holders must show they meet the FCC’s Substantial Service guidelines, which require a limited threshold of use of the licenses be met or exceeded.

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