

Critical Infrastructure Network Extension Initiative (CINEI)

Select Spectrum represents BPC Spectrum, which holds **Upper 700 MHz A Block FCC licensed spectrum (700 MHz) in 21 Major Economic Areas (MEAs) across the United States**. In addition to 700 MHz for sale and lease, BPC Spectrum and Select Spectrum are now offering participation in a new project, the Critical Infrastructure Network Extension Initiative (CINEI), to public utilities and critical infrastructure companies, **providing wireless links to mutually agreed upon locations at no cost**.

Critical Infrastructure Network Extension Initiative (CINEI):

The primary goal of CINEI is to demonstrate attractive alternative spectrum solutions for Utilities and other Critical Infrastructure organizations (Participant) by providing new wireless options across their networks. CINEI offers an effective solution to Participants interested in updating their systems by eliminating wireline connections, replacing links that are being terminated by current providers, and modifying or expanding existing networks. CINEI will also serve to aid BPC Spectrum in the compliance of various Federal Communications Commission (FCC) rules and regulations.

In most cases, BPC Spectrum will require that Participants deploy links in rural counties¹ that lack satisfactory communication with the existing utility telecommunications network. Across six of BPC Spectrum's MEAs it is preferred that links service urban or suburban populations².

Through CINEI, BPC Spectrum and Select Spectrum will provide Participants with the following services:

- BPC Spectrum and the participating radio manufacturers³ (Suppliers) agree to provide a single 700 MHz link for each mutually agreed upon county, at no charge, to Participants. If the Participant elects to use a different manufacturer, Select Spectrum will attempt to include them as a Supplier. The link includes the 700 MHz spectrum usage rights and the necessary equipment required. The link may use up to the full 2 MHz of 700 MHz spectrum, which provides an approximate 4 Mbps of total wireless throughput. If the Participant chooses to expand its use of 700 MHz spectrum to additional links, beyond those outlined in the program, then BPC Spectrum will negotiate access to the required spectrum through sale, lease, or an otherwise agreed upon and appropriate arrangement.
- The designated link may be established as either point-to-point OR a single connection as part of a point-to-multipoint base station, depending upon Participant's preference.
- Upon request, Select Spectrum will provide a list of counties available for the CINEI program in areas of interest to potential Participants.

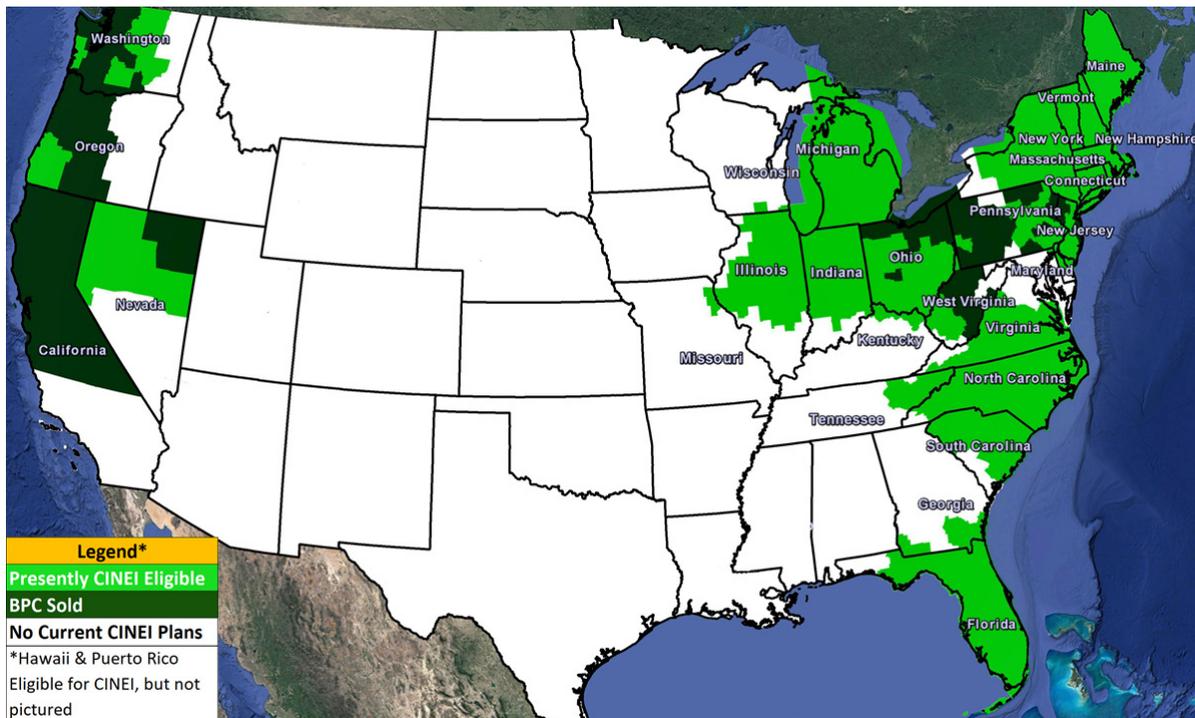
¹ FCC 04-166: The FCC defines a rural county as having "a population density of 100 persons per square mile or less, based upon the most recent Census data". Select Spectrum currently utilizes 2016 Census data population estimations to determine if a county meets this definition. A list of eligible counties will be provided upon request.

² BPC plans urban/suburban links to be offered in the following market areas: Jacksonville, Chicago, Indianapolis, Seattle, Reno, and Puerto Rico. The licenses were originally based on the Major Economic Area (MEA) geographic areas. Portions of some MEA licenses have previously been sold and are no longer available for the CINEI project.

³ A list of participating radio vendors will be provided; we expect there to be a variety of Suppliers to choose from.

Why Utilities and Critical Infrastructure companies should consider use of the 700 MHz Band:

- Paired spectrum between 757 – 758 MHz and 787 – 788 MHz allows for unencumbered, clear, propagation⁴ with superior range and building penetration.
- Flexible rules allow for applications in voice, video, data, SCADA, telemetry and more in fixed or mobile configurations up to 1000 Watts ERP at 1000 feet and uplink of 30 Watts.⁵
- Interference protection from adjacent public safety broadcast channels and Verizon with equally applicable rules.
- IEEE 802.16s GRIDMAN standard supported, with consideration by 3GPP for LTE Narrowband IoT.⁶
- Multiple Narrowband Supplier options are also available.



Terms and Conditions:

- Participants may keep the links operating for an extended period of time and must agree to use the data traversing the system as part of their normal operations.
- BPC Spectrum reserves the right to sell or lease the spectrum being utilized in CINEI. The Participant will be given, at minimum, sixty days' notice to discontinue service. Whenever possible BPC Spectrum will attempt to provide greater than sixty days' notice.
- The Participant may cancel its participation and ask the participating Suppliers to shut the link down within sixty days. In the case of an emergency, service may be disconnected immediately by the Participant. Notice should then be given promptly to the Suppliers, as well as to BPC Spectrum and Select Spectrum, so they may initiate equipment recovery.
- The Suppliers ask that reasonable access to the appropriate Participant facilities be given to their qualified technical personnel during the installation process and for any necessary maintenance work thereafter.
- In general, CINEI is exclusive to the first Participant any given county.

⁴ Fewer base stations are needed in a given service area, thereby lowering infrastructure expenses significantly.

⁵ In urban/suburban links BPC Spectrum may request that a minimum power level be utilized.

⁶ Support from 700 MHz Utility/Critical Infrastructure owners and interested parties in the form of a Utility Users Group, as well as the Electric Power Research Institute, WiMAX Forum, and Utilities Telecom Council.