

Description of the CDMA Base station Range Extension System (C-BRES) for the experimental license application

The C-BRES system is being developed under a small business innovative research contract with the US Army CECOM RDEC, contract number DAAB07-03-C-J603, (Contact is Kevin Chin, (732) 427-4056).

The C-BRES is essentially a two part repeater system which will repeat System B, cellular Band Class 0 base station and mobile transmissions. The system essentially amplifies and repeats standard IS-95 CDMA waveforms. In order to fulfill requirements of the Army contract, Oberon will be required to demonstrate the C-BRES system while transmitting at frequencies and powers described in the application. The modulations are identical to CDMA IS-95 emissions from the base-station or mobile handset.

Oberon has contacted the prevailing cellular license holder for this band. The license holder has agreed to permit limited demonstrations during pre-arranged periods of time.