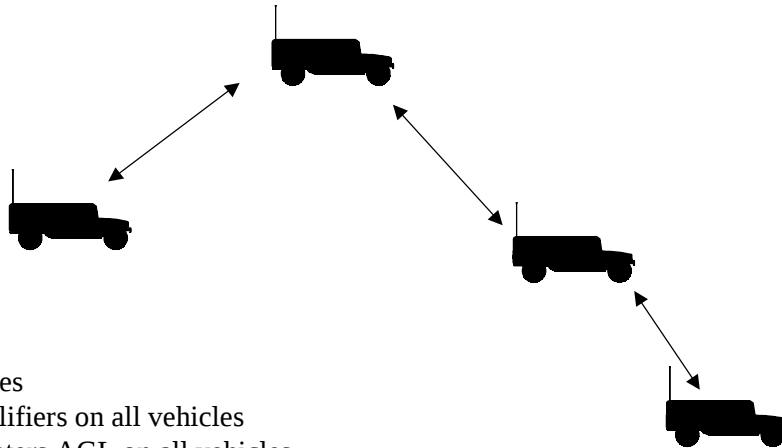


Exhibit #1 for FCC Form 422 for FCS Communications Testing

Future Combat System (FCS) Communications Demonstration of Networking Capability



Upto 20 vehicles
6w power amplifiers on all vehicles
Antenna < 4meters AGL on all vehicles
Antenna gain on all vehicles <23dB
Locations: Lakehurst Naval Air Station, Lakehurst NJ
within a 20mile radius

Exhibit #2 to FCC Form 422 for FCS Communications Testing

The Defense Advanced Research Projects Agency (DARPA) is developing data network techniques to support Army Future Combat System (FCS) related efforts. The network techniques propose to capitalize on directional antennas to increase spectral reuse, improve low probability of detection characteristics, and improve anti-jam capability of future tactical wireless network systems. Initial testing of networking techniques proposes to use existing commercial-off-the-shelf (COTS) radio systems operating in this frequency band. COTS radios available in this band will allow implementation of advanced networking techniques and initial testing of these techniques without necessitating the development of new radios. Initially the mobile nodes used to test the evolving networking techniques will be terrestrial based and mobile.

This license is being requested to support the testing of the FCS Communications networking techniques. The communications links shown in Exhibit #1 will interconnect

the ground platforms and test the ability of the evolving networking techniques to form a connected network. The testing of the FCS Communications will be performed beginning in August 2001 and continue through April 2002. The RF communications links are to test the evolving networking techniques and are not being developed to support a fielded military system. Once networking techniques are testing using COTS radios the techniques will, if effective, be implemented into military radio systems and fielded using military frequency bands. This request is for initial testing using COTS radios to facilitate a more rapid turnaround of the rapidly evolving network techniques.