

**COMTECH SYSTEMS, INC.
EXPERIMENTAL STA APPLICATION
FILE NO. 0163-EX-ST-2010
March 2010**

**DESCRIPTION OF EXPERIMENT
& REQUEST FOR EXPEDITED PROCESSING**

Consolidated Response to Questions 4 and 5.

Comtech Systems, Inc. ("Comtech") hereby requests Special Temporary Authority ("STA") to conduct experimental testing of its Transportable Fast Link Antenna ("TFLA") in order to measure the receive characteristics of the antenna unit which is currently in development. As a result of a major change to the TFLA feed, the antenna performance requires re-characterization. The transmitter noted below will be used as a signal source to measure said receive characteristics of the noted antenna. Comtech proposes to utilize three frequencies in the range of 4.4 – 5.0 GHz (low, middle, high) on a temporary basis to conduct this critical testing. Only one frequency would be utilized at any given time during the testing. As indicated below, Comtech is hereby requesting expedited processing of this STA request.

Antenna ~

Antenna Manufacturer: ATM
Part No. 187-442-6/NF
Gain @ Beamcenter: 20dB
Maximum Transmitting 2 watts
ERP

Transmitter ~

Manufacturer Anritsu
Part No. 68047C

The proposed testing will be conducted at Comtech facilities located in Orlando, Florida. Given the extremely lower transmitting power level, Comtech believes that no harmful interference to any FCC licensees will occur. However, to the extent necessary Comtech will use its best efforts to avoid and minimize any potential interference. Comtech further recognizes that if any interference to existing licensed stations occurs, any testing will be subject to immediate shut down.

Because the equipment is technically incapable of providing station identification, Comtech respectfully requests a waiver of the station identification provisions of Section 5.115 of the Commission's rules, 47 C.F.R. § 5.115.

All network traffic will be simulated traffic only, solely for evaluation purposes and not for the purpose of providing network data communications services to user stations.

Comtech submits that a grant of an experimental STA is necessary and in the public interest because it will Comtech to facilitate its order with the United States Marine Corp.

The **stop buzzer contact** for this project is Paul Kelly at Comtech, tel: (407) 854-1950 ext. 3050, mobile: (321) 948-4315, e-mail: paul.kelly@comtechsystems.com

Request for Expedited Processing

Comtech hereby requests that the above-captioned application be processed on an expedited basis because the proposed TFLA equipment subject to the testing requested herein has been ordered by the United States Marine Corp and will be ultimately be deployed to troops in Afghanistan. As previously noted, a major change was made to the antenna feed. As a result of this change, the antenna's performance requires re-characterization. The United States Marine Corp has ordered the TFLA units with a short delivery schedule and will deploy these units in Afghanistan. Due to the changes, the testing requested herein must be completed quickly so that the final TFLA units can go into production for this order.

Expedited processing of the Comtech application is therefore a matter of serious national security and will advance the declared war on terror. Failure to process the application on an expedited basis would disserve the public interest by delaying the testing and deployment of powerful new communications equipment to the United States military. For all of these reasons, Comtech respectfully requests expedited processing of the application, and a decision concerning the application as soon as possible.