

NORTHROP GRUMMAN SPACE TECHNOLOGY

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Radio Systems

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Federal Communications Commission
Experimental Radio Services
P.O. Box 358320
Pittsburgh, PA 15251-5320

Dear Sir or Madam:

Northrop Grumman Space & Mission Systems Corp. ("Northrop Grumman Space Technology" or "NGST") hereby requests a grant of Special Temporary Authority ("STA") to operate fixed-base and mobile experimental radio station facilities, as detailed below, for a period beginning on November 1, 2005, and ending on January 31, 2006. Northrop Grumman Space Technology requests this STA in order to test and demonstrate transmit and receive capabilities of a multi-channel SINCGARS Software Defined Radio Waveform for the US Army Aviation & Missile Command in support of the Comanche Technology Transfer Program (Contract Number W58RGZ-04-C-0288).

The proposed fixed-base and mobile experimental radio station facilities will both utilize Telex Communications Inc, 30 – 108 MHz Vehicular Antenna, Model Number 4334 dipole omnidirectional antenna, operating at a center frequency of 40 MHz, with a maximum ERP of 50 Watts. The modulation type is FM, and will transmit voice only. The emission designator is 20K0F3E.

The proposed fixed-base and mobile experimental station facilities will be located at and around NGST's Rancho Carmel facility in San Diego (San Diego County), California. The fixed-based station will transmit from the roof of the Advanced Communications Test Center building, located at 1 Rancho Carmel (32° 59'30.6"N and 117° 04'48.24"W). The Telex 4334 omnidirectional antenna will be positioned on the roof, with a height of 18 meters AGL and an elevation of 267.0 meters ASL. The mobile station will operate within a 17 kilometer radius of 1 Rancho Carmel, San Diego (San Diego County), California (32° 59'30.6"N and 117° 04'48.24"W).

The testing will be performed during daylight hours, and in 1-hour increments.

I certify that I am an authorized employee of Northrop Grumman Space Technology & Mission Systems Corp.

Respectfully submitted,
NORTHROP GRUMMAN SPACE TECHNOLOGY &
MISSION SYSTEMS CORP.

By: /s/ Paul Wulff
Paul Wulff
Manager, Specialty Engineering