

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 a fixed-base and mobile experimental radio station facility, as detailed below, for a period beginning on January 3, 2007, and ending on April 30, 2007. Northrop Grumman Space Technology requests this STA in order to conduct ground-to-ground waveform testing of a Single Channel Ground and Airborne Radio System ("SINCGARS") for internal reasearch and development purposes.

The proposed fixed-base and mobile experimental radio station facilities will utilize Telex, Model Number 4334, transmitters with a dipole omnidirectional antenna, operating at a center frequency of 49.8 MHz, with a maximum ERP of 15 Watts, and a gain of -6dB to -1 dB. The modulation type will be FM FSK, the data transmission rate will be 16 Kbps, and the emission designator will be 25K0F3E.

The proposed fixed-base and mobile experimental station facility 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 1 Rancho Carmel, San Diego (San Diego County), California (NAD83: NL 32-59-25; WL 117-04-46), and the antenna will be positioned at 30.5 meters AGL. The mobile station will operate within a 48.5 kilometer radius of 1 Rancho Carmel (NAD83: NL 32-59-25; WL 117-04-46). The testing will be performed during daylight hours (8:00-18:00).

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

Respectfully submitted,
NORTHROP GRUMMAN SPACE &
MISSION SYSTEMS CORP.

By: Paul Wulff
Paul Wulff
Manager, Specialty Engineering