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March 20, 2000

**HAND DELIVERY**

Magalie Roman Salas, Esq.  
Secretary  
Federal Communications Commission  
Experimental Radio Services  
P.O. Box 358320  
Pittsburgh, PA 15251-5320

Re: **Request for Special Temporary Authority:  
Northrop Grumman Corporation's FCC Form 442 Application for a  
New Experimental Radio Station License for a Mobile Facility  
Located in Oak Ridge and Lenior City, Tennessee**

Dear Ms. Salas:

On behalf of Northrop Grumman Corporation ("Northrop Grumman") there is submitted herewith, in triplicate, a request for a 180-day grant of Special Temporary Authority ("STA") to operate a new mobile experimental facility located in Oak Ridge and Lenior City, Tennessee while the Commission processes the above-referenced, underlying FCC Form 442 application. Northrop Grumman requires this grant of STA to begin its testing of mobile hazardous environment robots, which it is producing for the U. S. Navy under Contract No. N00174-97-D-0009. The testing is scheduled to commence on April 17, 2000. Therefore, Northrop Grumman respectfully requests that STA be granted on or before April 15, 2000 so that the operations may commence on April 17, 2000. Northrop Grumman also requests a STA term of 180 days or until the underlying FCC Form 442 application is granted by the Commission.

The enclosed STA request consists of a certification bearing the original signature of Steven F. Balaz, Spectrum Licensing Specialist of Northrop Grumman, and a copy of Northrop Grumman's underlying FCC Form 442 application that is being

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■ HONOLULU   ■ LAS VEGAS   ■ MCLEAN   ■ MIAMI

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simultaneously filed with the Commission under separate cover. Northrop Grumman will forward the requisite "Anti-Drug Abuse Act" certification within the next 10 days.

Also enclosed are the FCC Form 159 and a check made payable to the "Federal Communications Commission" in the amount of \$45.00 to cover the requisite filing fee.

Questions concerning this filing should be directed to the undersigned.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "John M. R. Kneuer", with a long, sweeping horizontal line extending to the right.

John M. R. Kneuer  
Attorney for Northrop Grumman Corporation

Enclosures

NORTHROP GRUMMAN CORPORATION  
1745A WEST NURSERY ROAD MS 170  
LINTHICUM, MD 21090

March 14, 2000

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

Dear Madam Secretary:

I, Steven F. Balaz, Spectrum Licensing Specialist of Northrop Grumman Corporation, ("Northrop Grumman"), hereby certify that I am an authorized employee of Northrop Grumman. I hereby request a 180-day grant of Special Temporary Authority ("STA") for Northrop Grumman to operate a mobile experimental facility located in either Oak Ridge or Lenior City, Tennessee. The area of operation consists of a 10 km radius of NAD-27 coordinates 36-00-40 N, 084-13-30 W and 35-52-50 N, 084-18-45 W Two of the transmitters will be operated from a portable command terminal and the other will be mounted on a mobile hazardous environment robot.

Northrop Grumman has been contracted by the U.S. Navy (Contract # N00174-97-D-0009) to produce and test robots intended for eventual use by Navy EOD squads. Testing has been scheduled to begin on April 17, 2000.

Simultaneously, Northrop Grumman filed an FCC Form 442 application for a new license authorization in the Experimental Radio Service. A date-stamped copy is attached as proof-of-filing. Northrop Grumman respectfully requests STA to operate the facilities requested, while the staff processes the Form 442 application.

Grant of STA will enable Northrop Grumman to conduct intermittent transmissions of the radios from 8:00 am to 8:00 pm. The transmitters are provided off the shelf from other vendors. The command terminal, constructed by Northrop Grumman engineering personnel, incorporates two VHF radios: one transmitting at 143 MHz, 5 watts of power, emission designator 20K0F3E, and the other transmitting at 150.65 MHz, 5 watts of power, emission designator 20K0F1D. The robot, also constructed by Northrop Grumman, incorporates a telemetry transmitter operating at 5 watts of power between 2360 and 2390 MHz and emissions 16M5F3W or 22MF9W (depending on which model transmitter is installed). The antennas used have no gain. The purpose of the tests is to demonstrate the performance and reliability of the radio link system used on the robot.

Very truly yours,  
NORTHROP GRUMMAN CORPORATION

By:   
Steven F. Balaz, Spectrum Licensing Specialist