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Lisa M. Fowlkes  
(202) 371-6115

August 20, 1999

**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 Located Around Linthicum,  
Maryland and Huntsville, Alabama**

Dear Ms. Salas:

On behalf of Northrop Grumman Corporation ("Northrop Grumman") there is submitted herewith, in triplicate, a request for Special Temporary Authority ("STA") to operate a new mobile experimental facility mounted on a vehicle located around Linthicum, Maryland and Huntsville, Alabama in accordance with the above-referenced FCC Form 442 application. Northrop Grumman requires this grant of STA to begin conducting its tests to evaluate the concept of integrating RF and IR sensors in a single system. The testing is tentatively scheduled to commence on September 1, 1999. Therefore, Northrop Grumman respectfully requests that STA be granted on or before August 31, 1999, so that operations may commence on September 1, 1999. Northrop Grumman also requests a STA term of 90 days or until the pending 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; the requisite Anti-Drug Abuse Act Certification bearing the original signature of John H. Mullan, Vice President and Corporate Secretary of Northrop Grumman; and a copy of

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Northrop Grumman's underlying FCC Form 442 application that is being simultaneously filed with the Commission under separate cover.

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 "Lisa M. Fowlkes". The signature is written in a cursive style with a large initial "L".

Lisa M. Fowlkes  
Attorney for Northrop Grumman Corporation

Enclosures

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

August 16, 1999

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

Dear Madam Secretary:

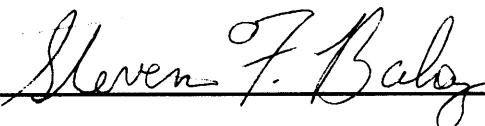
I, Steven F. Balaz, Spectrum Licensing Specialist of Northrop Grumman Corporation, ("Northrop Grumman"), hereby certify that I am an authorized employee of Northrop Grumman. I hereby request a 90-day grant of Special Temporary Authority ("STA") for Northrop Grumman to operate a mobile experimental facility mounted on a vehicle located around Linthicum (Anne Arundel), Maryland and Huntsville (Huntsville), Alabama. The vehicle will be operated from mobile and stationary positions at various locations within 10 kilometers around the approximate NAD-83 coordinates of 39-11-01 N, 076-41-09 W; 34-43-40N, 086-40-40W; and 34-40-43N, 086-41-04W.

Simultaneously with this request, Northrop Grumman filed an FCC Form 442 application for a new construction permit and license authorization in the Experimental Radio Service. A copy is attached. 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 transmitter from 8:00 am to 8:00 pm. The transmitter will be supplied by Northrop Grumman. The transmitter will produce 1000W of ERP while transmitting, operating on 35500 MHz and emission 558M1Q0N. The antenna will be mounted less than 6 meters above ground level. The purpose of the tests is to evaluate the concept of integrating RF and IR sensors in a single system. Testing has been tentatively scheduled to begin on September 1, 1999.

Very truly yours,

NORTHROP GRUMMAN CORPORATION

By:  \_\_\_\_\_

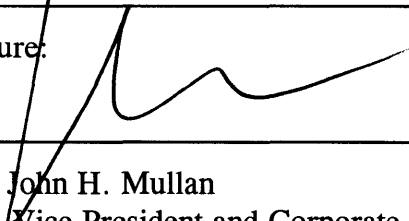
Steven F. Balaz, Spectrum Licensing Specialist

ANTI-DRUG ABUSE ACT CERTIFICATION

The applicant certifies that, in the case of an individual applicant, he or she is not subject to a denial of federal benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. § 862a, or, in the case of a non-individual applicant (e.g. corporation, partnership or other unincorporated association), no party to the application is subject to a denial of federal benefits pursuant to that section. For the definition of a "party" for these purposes, see 47 C.F.R. § 1.2002(b).

YES

NO

Name of Applicant: Northrop Grumman Corporation	Signature: 
Date: 8/19/99	Title: John H. Mullan Vice President and Corporate Secretary