

0053-EX-ST-2001

VERNER · LIIPFERT  
BERNHARD · McPHERSON & HAND  
**CHARTERED**

901 - 15TH STREET, N.W.  
WASHINGTON, D.C. 20005-2301  
(202) 371-6000  
FAX: (202) 371-6279

John M. R. Kneuer  
(202) 371-6332

January 26, 2001

**HAND DELIVERY**

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

Re: **Northrop Grumman Corporation's Request For Special Temporary  
Authority to Operate Facilities in the Experimental Radio Service Beginning  
on February 5, 2001  
ACTION REQUESTED BY FEBRUARY 2, 2001**

Dear Madam Secretary:

On behalf of Northrop Grumman Corporation ("NGC"), there is submitted herewith a request for Special Temporary Authority ("STA") to operate mobile ground and airborne transmitters in the experimental radio service in an area around Hagerstown, Washington County, Maryland for a period beginning on February 5, 2001 and ending on October 31, 2001.

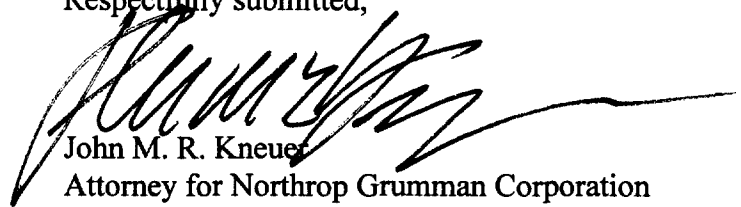
NGC requests the STA in order to (1) demonstrate to a customer several off-the-self communication devices and electronic sensors, which have been integrated into airborne platform and associated ground station systems, and (2) conduct qualification tests of the systems. NGC is scheduled to commence its demonstrations and tests on February 5, 2001. Thus, NGC respectfully requests that the Commission issue a grant of STA on or before Friday, February 2, 2001.

Magalie Roman Salas, Esq.  
Federal Communications Commission  
January 26, 2001  
Page 2

Attached to NGC's STA is the required "Anti-Drug Abuse Act Certification" We are also submitting a FCC Form 159 and a check made payable to the "Federal Communications Commission" in the amount of \$50.00 to cover the requisite filing fee.

Any questions concerning this filing may be directed to the undersigned.

Respectfully submitted,



John M. R. Kneuer  
Attorney for Northrop Grumman Corporation

Enclosures

cc: Carl Huie  
Steve Balaz

**NORTHROP GRUMMAN CORPORATION  
1745A WEST NURSERY ROAD MS G11  
LINTHICUM, MD 21090  
(410) 765-5626**

January 25, 2001

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 grant of Special Temporary Authority ("STA") over the period of February 5, 2001 through October 31, 2001 for Northrop Grumman to operate ground and airborne transmitters in the experimental radio service in the area around Hagerstown (Washington), Maryland. The airborne transmitters will be operated from an area not more than 320 km away from NAD-83 coordinates of 39-42-24N and 077-43-23W (except due East, where a distance up to 800 km is required), at altitudes ranging up to 5500m AMSL. The mobile ground transmitters will remain within an 8 km radius of the coordinates above and operate an antenna height not to exceed 6m. Northrop Grumman requests this STA to conduct intermittent transmissions from 8:00 am to 8:00 pm.

Northrop Grumman requires this STA to demonstrate to a customer a number of off-the-shelf communication devices and electronic sensors which have been integrated into airborne platforms and their associated ground stations and to conduct qualification tests of the systems. A total of six systems are to be produced. Technical data for these systems is contained in the tables below:

**Ground Transmissions:**

Transmitter	Frequencies	Tx Power	ERP		Modulation	Emission Designator	Necessary Bandwidth
Harris RF-5800H	25.16, 25.4 MHz	400W	400W	Mean	1800 bps	2K50G2D	2.5 kHz
Harris RF-5800M VHF	35.5, 150.8 MHz	20W	20W	Mean	16 kbps data	20K0F1D	20 kHz
Harris RF-5800M UHF	451.8125, 452.95 MHz	20W	20W	Mean	16 kbps data	20K0F1D	20 kHz
L3 Corp. Narrow Band Data Link	14.4-14.83 GHz, in 5 MHz steps, any 2 frequencies	1W	3500W	Mean	300 kbps	600KG1D	600 kHz
Stratex XP4-E3 (Qty 2)	14.417-15.341, GHz in 28 MHz steps	80mW	100W	Mean	34 Mbps	28MG1D	28000 kHz

**Airborne Transmissions:**

Transmitter	Frequencies	Tx Power	ERP		Modulation	Emission Designator	Necessary Bandwidth
Collins HF-9000	25.16, 25.4 MHz	400W	400W	Mean	1800 bps	2K50G2D	2.5 kHz
Harris RF-5800M VHF	35.5, 150.8 MHz	20W	20W	Mean	16 kbps data	20K0F1D	20 kHz
Harris RF-5800M UHF	451.8125, 452.95 MHz	20W	20W	Mean	16 kbps data	20K0F1D	20 kHz
L3 Corp. Wide Band Data Link	15.15-15.35 GHz, in 5 MHz steps, any 2 frequencies	2W	500W	Mean	10.7 Mbps	10M7G1D	10710 kHz
Raytheon HISAR Radar	9350 MHz	3500W	7MW	Peak	Pulsed	215M8Q0N	215790 kHz

Very truly yours,  
NORTHROP GRUMMAN CORPORATION

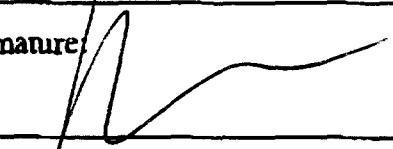
By:   
Steven F. Balaz, Spectrum Licensing Specialist

### 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

<b>Name of Applicant:</b> Northrop Grumman Corporation	<b>Signature:</b> 
<b>Date:</b>	<b>Title:</b> John H. Mullan Vice President and Corporate Secretary