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January 8, 2002

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 a 180-day Grant of
Special Temporary Authority to Operate Facilities in the Experimental
Radio Service
IMMEDIATE ACTION REQUESTED**

Dear Madam Secretary:

Transmitted herewith, on behalf of Northrop Grumman Corporation ("NGC"), is a request for a 180-day grant Special Temporary Authority ("STA") for NGC to operate an experimental airborne radar system located aboard a flight test aircraft based around NGC's Linthicum, Maryland facility.

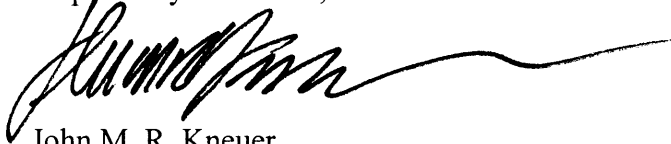
NGC has been contracted by the United Kingdom Ministry of Defense's Defense Evaluation Research Agency to conduct a target data collection flights using a NGC experimental radar system. The contract requires the radar system to be flown over specific types of terrain and targets to produce the necessary data. The Commission previously authorized NGC to transmit according the operational and technical parameters, which are specified in the enclosed STA request, in a grant of STA under Call Sign WB9XMK (File No. 0163-EX-ST-2001), which expired on October 18, 2001. Under the contact, NGC must continue testing its experimental radar system. Accordingly, NGC requests grant of this request for STA as soon as possible or by January 16, 2002, so that NGC may recommence testing on January 17, 2002.

Magalie Roman Salas, Esq.
Secretary
Federal Communications Commission
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Page 2

Also enclosed are 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. NGC will forward the required "Anti-Drug Abuse Act Certification" as soon as the executed original is received from NGC's corporate headquarters.

Any questions concerning this filing may 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
LINTHICUM, MD 21090**

December 20, 2001

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

Dear Madam Secretary:

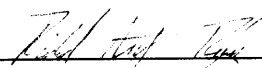
Northrop Grumman Corporation ("Northrop Grumman") hereby requests a 180-day grant of Special Temporary Authority ("STA") to operate an experimental airborne radar located aboard a Northrop Grumman flight test aircraft based at our Linthicum (Anne Arundel County), Maryland facility. The transmitter will be operated while in flight at altitudes up to 3500 mAMSL. The area of operation will be within a radius of 320 km of NAD-83 coordinates 39-11-08 N and 076-41-11 W. Northrop Grumman is requesting the identical operating parameters as was previously granted by the Commission in the STA issued to Northrop Grumman under Call Sign WB9XMK (File No. 0163-EX-ST-2001), which was effective from April 18, 2001 until October 18, 2001 (see attached STA issued under Call Sign WB9XMK).

Northrop Grumman has been contracted by the United Kingdom's Ministry of Defense's Defense Evaluation Research Agency to continue conducting target data collection flights using a Northrop Grumman experimental radar system. The tests require the radar to be flown over specific types of terrain and targets to produce the necessary data. Testing is scheduled to commence on or around January 7, 2001. Our customer point of contact is Dr. Peter Thompson, Phone +44(0)1684 896710, E-mail pathompson@dera.gov.uk

Grant of STA will enable Northrop Grumman to conduct intermittent transmissions during various times of day as required. The radar transmitter will produce 320W of peak power while transmitting, operating within the band 16.2 to 16.8 GHz and therefore an emission of up to 600M00Q0N. The antenna has a gain of 22dB. I hereby certify that I am an authorized employee of Northrop Grumman.

I certify that I am an authorized employee of Northrop Grumman Corporation.

Respectfully submitted,
NORTHROP GRUMMAN CORPORATION

By: 
Richard Ryder, Spectrum Licensing Specialist

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL
(Nature of Service)

XE FX MO
(Class of Station)

WB9XMK
(Call Sign)

0163-EX-ST-2001
(File Number)

NAME Northrop Grumman Corporation

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

Test of experimental radar system.

Station Locations

- (1) Linthicum (ANNE ARUNDEL), MD - NL 39-11-08; WL 76-41-11; MOBILE: altitude up to 3500 m AMSL, within 320 km

Frequency Information

Linthicum (ANNE ARUNDEL), MD - NL 39-11-08; WL 76-41-11; MOBILE: altitude up to 3500 m AMSL, within 320 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16200-16800 MHz	MO	600MQ0N	31 kW (ERP)	

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.

This authorization effective April 18, 2001 and
will expire 3:00 A.M. EST October 18, 2001

**FEDERAL
COMMUNICATIONS
COMMISSION**

