

NORTHROP GRUMMAN CORPORATION
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March 26, 2003

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

Dear Sir or Madam:

Northrop Grumman Corporation ("Northrop Grumman") hereby requests a 180-day grant of Special Temporary Authority ("STA") to operate fixed/base and airborne mobile experimental radio systems at and around the following two locations:

1. 200 nautical mile radius around Linthicum (Anne Arundel County), Maryland (NAD-83 coordinates 39-11-01 North and 076-41-09 West) and
2. 100 nautical miles radius around North Highlands (Sacramento County), California (NAD-83 coordinates 38-39-59 North and 121-23-29 West)

Northrop Grumman requests this STA to use a common data link, which consists of ground fixed/base and airborne mobile transmitter units, for an IRAD flight test for ACS. Testing is scheduled to commence on as soon as possible at the Linthicum, Maryland, location and on June 1, 2003 at the North Highlands, California, location. Northrop Grumman respectfully requests grant of the STA on or before April 1, 2003.

The experimental transmissions will involve airborne and surface TCDL transmitter units manufactured by L-3 Communications. The transmitters will operate at the following frequency ranges, mean power levels and emission designators:

<u>Frequency Range</u>	<u>Mean Power</u>	<u>Emission Designator</u>	<u>Modulation</u>
14.40-14.83 GHz	2 W	21M4G1D	10.71 mb/s
15.15-13.35 GHz	2 W	400KG1D	200.0 kb/s

Northrop Grumman requests any two frequencies between 14.40-14.83 GHz (air to ground) and any two frequencies between 15.15-13.35 GHz (ground to air) with the necessary bandwidth for transmissions at each location.

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

Respectfully submitted,
NORTHROP GRUMMAN CORPORATION

By: \s\ Jan E. Sochurek
Jan E. Sochurek
Spectrum Licensing Specialist