

**NORTHROP GRUMMAN CORPORATION**  
1745A WEST NURSERY ROAD MS 170  
LINTHICUM, MD 21090  
May 16, 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 Ocean City MD, Annapolis MD, or Norwalk CT. The areas of operation consist of 10 km radii of NAD-83 coordinates 38-24-51 N, 075-03-23 W; 39-00-22 N, 076-24-28 W; and 41-06-40 N, 073-23-28 W, respectively. The coordinates above are coastal, and the transmitter will be directed seaward.

Northrop Grumman has obtained permission to temporarily procure a Telephonics model AN/APS-143B(v)3 radar to conduct an evaluation of the device to determine its suitability for use as a coastal maritime radionavigation system intended for eventual overseas installation. Testing has been scheduled to begin on June 9, 2000 at the request of a potential customer.

Grant of STA will enable Northrop Grumman to conduct intermittent transmissions of the radar from 8:00 am to 8:00 pm. The transmitter is provided off the shelf from Telephonics Corporation. The transmitter produces 10 kW of peak power. The antenna used has a gain of 33dB. The radar transmits in three distinct modes. Details of operation are in the table below.

Mode	Frequency (MHz)	Modulation	PRF (Hz)	Emission
Very Short Range	9250-9700 10 MHz steps Frequency Agile	CW Pulse 0.1 $\mu$ S width	2490	57M9P0N
Short Range	9250-9700 10 MHz steps Frequency Agile	Linear FM Pulse 10 $\mu$ S width 14 MHz chirp	1513 or 2491	20M5Q0N
Long Range	9250-9700 10 MHz steps Frequency Agile	Linear FM Pulse 40 $\mu$ S width 14 MHz chirp	395 or 750	19M1Q0N
High Resolution	9470	Linear FM Pulse 23.4 $\mu$ S width 200 MHz	200-1300	237M2Q0N

Very truly yours,  
NORTHROP GRUMMAN CORPORATION

By:   
Steven F. Balaz, Spectrum Licensing Specialist