

# LANGLEY RESEARCH CENTER SPECTRUM MANAGER' OFFICE

Date: July 15, 2002  
To: Distribution  
From: 474/ LaRC Spectrum Manager,  
System Engineering Branch, SEC  
Subject: Radio Frequency Authorizations

Enclosed are copies of new radio frequency authorizations for the following frequency band that your offices uses for Rotorcraft RPV Research Programs and Wind Tunnel model controls. These RFA will replace existing RFAs within this frequency band. The old RFAs will be deleted shortly. Please pass this notification on the appropriate personnel.

Frequencies	Serial Numbers	Area of Operations	Expiration Date
72.008000 MHz to 72.998000 MHz	NASA20008	60 km LaRC, Hampton, VA	June 6, 2007
72.008000 MHz to 72.998000 MHz	NASA20009	20 km radius of Wallop Is., VA	June 6, 2007

These authorizations will again come under review in the year of 2007 for continued use. Your office is now authorized to use these frequencies within a 60-kilometer radius of the Hampton, VA area and 20-kilometer radius of Wallops Island, VA on a secondary basis. Under these 2 RFSs Channel 11 through 60 is available for use to avoid radio interference to other users. Be advised that these authorizations must be posted on or within the area of the main transmitting devices when in operation.

These authorizations are for 0.75 Watts and limited to daytime operations.

Should the occasion come that the use of any one of these frequencies is no longer required, please notify me as such?

Please review with regards to accuracy. This RFA should reflect, as accurately as possible, what are actually in use for the Government Master File (GMF) NASA assignments? Its accuracy ensures that the GMF will reflect the NASA assignments accurately.

Please also note that there are restrictions that have been added to your assignment. These restrictions are delineated below the actual assignment data and are in the form of record notes from Annex A of the NTIA manual.

E039: The authorized emission bandwidth shall be so located within the band that it does not extend beyond the upper or lower limits of the authorized band shown in the (\*FRB) entry of the circuit remarks. If a portion(s) of the authorized band is to be excluded (\*FBE) the authorized emission bandwidth must not extend into any portions(s) of the excluded band(s).

S070: Subject to immediate cancellation upon notice from the FCC.

S144: This assignment is not in complete conformity with the national table of frequency allocations. Those operations that are conducted under the nonconforming portions of this assignment are on a secondary basis to operations conducted under assignments that are in conformity with the national table of frequency allocations.

Should there be any errors/modifications, please send them via any one of the following means:

Phone: 864-5407

Fax: 864-9884

E-mail:

(b) (6)

Mail Stop: 124

Thank you

(b) (6)

Encl. Radio Frequency Authorization

Distribution:

(b) (6)

RADIO FREQUENCY AUTHORIZATION  
 ISSUED BY THE U.S. DEPARTMENT OF COMMERCE, NATIONAL TELECOMMUNICATIONS & INFORMATION ADMINISTRATION

CLA-CDD-----FRQ-----BIN-----SER-----FOI-ICI-MSD-BUR--NET---STC---EMS-----PWR-----NTS--SPE--RVD-----AUS-----EXD  
 U [REDACTED] NASA020008 LARC FLD 16K00P2D W0.75000 E039 020606 19972828  
 S144  
 S070

XSC--XAL-----XRC-----XLA-----XLG-----XCL-----XAD-----XAP-XAZ-TME  
 VA HAMPTON LARC 370614N 0762316W 00GWHIP 00004H0001T V ND 4  
 RSC--RAI-----RRC-----RLA-----RLG-----ACL-----RAD-----RAP-RAZ  
 VA HAMPTON 370614N 0762316W 00GWHIP V ND

\*\*\* SUP-----REMARKS-----  
 OPERATIONS ON NONINTERFERENCE BASIS TO FCC AUTHORIZED OPERATIONS. \*PRB,M00072.008000,M00072.998000  
 OPERATIONS LIMITED TO DAYTIME. FLIGHTS LAST 15 TO 60 MINUTES. NORMALLY \*RAD,0060,33NM  
 15 OPERATIONS PER MONTH. OPERATIONS REQUIRE THE USE OF 15 OR MORE \*NRM,00001,NET  
 SPECIFIC OPERATING FREQUENCIES. SUPPORTS SCALED MODEL AIRCRAFT RESEARCH \*EQT,U,JR PCM10X  
 USED FOR REMOTE PILOT CONTROL OF DROP MODELS AND RESEARCH FOR VARIOUS \*EQR,U,HITBC ECLIPSE  
 REMOTE PILOT CONTROLLED AIRBORNE PLATFORMS. BAND ASSIGNMENT ALLOWS USER \*SYS,TELECOMMAND  
 TO ADJUST FREQ TO AVOID RFI TO OTHER USERS. (b) (6) 757 864 5487  
 (b) (6) 757 864 28

\*\*\*\*\* THE FOLLOWING RECORD NOTE(S) (DEFINITIONS FROM ANNEX A TO THE NTIA MANUAL) APPLY TO THE ABOVE ASSIGNMENT \*\*\*\*\*  
 E039 THE AUTHORIZED EMISSION BANDWIDTH SHALL BE SO LOCATED WITHIN THE BAND THAT IT DOES NOT EXTEND BEYOND THE UPPER OR LOWER  
 LIMITS OF THE AUTHORIZED BAND SHOWN IN THE \*PRB ENTRY OF CIRCUIT REMARKS. IF A PORTION(S) OF THE AUTHORIZED BAND IS TO BE  
 EXCLUDED (\*FBE) THE AUTHORIZED EMISSION BANDWIDTH MUST NOT EXTEND INTO ANY PORTION(S) OF THE EXCLUDED BAND(S).  
 S144 THIS ASSIGNMENT IS NOT IN COMPLETE CONFORMITY WITH THE NATIONAL TABLE OF FREQUENCY ALLOCATIONS. THOSE OPERATIONS THAT ARE  
 CONDUCTED UNDER THE NONCONFORMING PORTIONS OF THIS ASSIGNMENT ARE ON A SECONDARY BASIS TO OPERATIONS CONDUCTED UNDER  
 ASSIGNMENTS THAT ARE IN CONFORMITY WITH THE NATIONAL TABLE OF FREQUENCY ALLOCATIONS.  
 S070 SUBJECT TO IMMEDIATE CANCELLATION UPON NOTICE FROM FCC.

REVIEW AND UPDATE OF THIS AUTHORIZATION IS REQUIRED 5 YEARS FROM THE DATE IN RVD UNLESS THERE IS AN EXPIRATION DATE SHOWN IN EXD  
 WHICH TAKES PRECEDENCE. THIS RADIO FREQUENCY AUTHORIZATION (RFA) IS GRANTED PURSUANT TO ACTION NUMBER NASA020008.

# Radio Frequency Authorization

This Authorization is granted pursuant to Chapter 1 Part 1.1 Section 6.08 of NTIA Manual by authority of the US National Aeronautics and Space Administration.

**his Authorization must be updated by: June 6, 2007. For continued use of this equipment, YOU MUST SUBMIT a request to your Frequency Manager by March 08, 2007.**

<b>Serial Number</b>	<b>FOI</b>	<b>MSD</b>	<b>BUR</b>	<b>NET</b>	<b>RVD</b>	<b>AUS</b>	<b>EXD</b>
NASA020009			LARC		020606	I9972829	
<b>FRQ</b>	<b>BIN</b>	<b>TME</b>	<b>SPD</b>	<b>STC</b>	<b>Bandwidth</b>	<b>Emission</b>	<b>Power</b>
72.008 MHz -72.998 MHz	4			FLD	16.00 kHz	F2D	.75 Watt(s)
<b>XAL, XSC</b>				<b>XRC</b>	<b>XLA, XLG</b>	<b>XCL</b>	<b>XAP</b> <b>XAZ</b>
WALLOPS ISLAND, VA				LARC	375628N0752745W		V      ND
<b>XAD</b>							
00GWHIP	00011H0001T						
<b>RAL, RSC</b>				<b>RRC</b>	<b>RLA, RLG</b>	<b>ACL</b>	<b>RAP</b> <b>RAZ</b>
WALLOPS ISLAND, VA					375628N0752745W		V      ND

**RAD**

00GWHIP

**Remarks**

- \*FRB,M00072.008000,M00072.998000
- \*RAD,0020,11NM
- \*NRM,00001,NET
- \*EQT,U,JR PCM10X
- \*EQR,U,HITEC ECLIPES
- \*SYS,TELECOMMAND

(b) (6) 757 864 5487

(b) (6) 757 864 28

**Restrictions (NTS, \*NTS, SUP)**

E039 - THE AUTHORIZED EMISSION BANDWIDTH SHALL BE SO LOCATED WITHIN THE BAND THAT IT DOES NOT EXTEND BEYOND THE UPPER OR LOWERLIMITS OF THE AUTHORIZED BAND SHOWN IN THE \*FRB ENTRY OF CIRCUIT REMARKS. IF A PORTION(S) OF THE AUTHORIZED BAND IS TO BEEXCLUDED (\*FBE) THE AUTHORIZED EMISSION BANDWIDTH MUST NOT EXTEND INTO ANY PORTION(S) OF THE EXCLUDED BAND(S).

S144 - THIS ASSIGNMENT IS NOT IN COMPLETE CONFORMITY WITH THE NATIONAL TABLE OF FREQUENCY ALLOCATIONS. THOSE OPERATIONS THAT ARECONDUCTED UNDER THE NONCONFORMING PORTIONS OF THIS ASSIGNMENT ARE ON A SECONDARY BASIS TO OPERATIONS CONDUCTED UNDERASSIGNMENTS THAT ARE IN CONFORMITY WITH THE NATIONAL TABLE OF FREQUENCY ALLOCATIONS.

S070 - SUBJECT TO IMMEDIATE CANCELLATION UPON NOTICE FROM FCC.

Supplementary Details - OPERATIONS ON NONINTERFERENCE BASIS TO FCC AUTHORIZED OPERATIONS. OPERATIONS LIMITED TO DAYTIME. FLIGHTS LAST 15 TO 60 MINUTES. NORMALLY 15 OPERATIONS PER MONTH. OPERATIONS REQUIRE THE USE OF 15 OR MORE SPECIFIC OPERATING FREQUENCIES. SUPPORTS SCALED MODEL AIRCRAFT RESEARCH USED FOR REMOTE PILOT CONTROL OF

\*\*\*\*\* U N C L A S S I F I E D \*\*\*\*\*

**Restrictions (NTS, \*NTS, SUP)**

DROP MODELS AND RESEARCH FOR VARIOUS REMOTE PILOT CONTROLLED AIRBORNE PLATFORMS. BAND ASSIGNMENT ALLOWS USER TO ADJUST FREQ TO AVOID RFI TO OTHER USERS.