

# LANGLEY RESEARCH CENTER SPECTRUM MANAGER' OFFICE

**Date:** April 6, 2004  
**To:** Distribution  
**From:** 434/ LaRC Spectrum Manager,  
System Engineering Branch, SEC  
**Subject:** Radio Frequency Authorizations

Enclosed are new and renewal copies of radio frequency authorizations for the following frequencies that your office uses for R/C model aircraft video down links.

Frequencies	Serial Numbers	Area of Operations	Expiration Date
2434.000000 MHz	NASA042004	2 KM of Felker Army Field	Dec 31, 2005
2434.000000 MHz	NASA042005	2 KM of Smithfield Air Field	Dec 31, 2005
2434.000000 MHz	NASA032013	2 km of Newport News, VA	Feb 28, 2009
2434.000000 MHz	NASA032014	2 km of Fentress Naval Station	Feb 28, 2009
2434.000000 MHz	NASA032015	2 km Wallops Island, VA	Feb 28, 2009

These authorizations will come under review in the year of the expiration date for continued use. Please notify me if you have requirement beyond the above expiration dates for the use of all or any of these RFA(s) at least 3 months before that date.

Your office is now authorized to use these frequencies within a 2-kilometer radius of the area of operation on a secondary basis. This means that the Non-Federal Government users have primary rights. Be advised that this authorization must be posted on or within the area of the main transmitting devices when in operation.

Should the occasion come that the use of these RFA(s) are no longer required, please notify me as such?

Please review with regards to accuracy. These RFA(s) 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.

S393: The band 2417-2450 MHz was identified for reallocation, effective August 10, 1995, for mixed Government and Non-government use under Title VI of the Omnibus Budget Reconciliation Act of 1993.

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 or questions, please send them via any one of the following means:

Phone: 864-5407 Fax: 864-9884 E-mail: (b) (6) Mail Stop: 124

**Please distribute to the appropriate personnel if you are no longer a user of these authorizations.**

**Thank you**

**(b) (6)**

**Encl. Radio Frequency Authorizations**

**Distribution:**

**(b) (6)**

**/Model Systems Branch**

**File: RFA M2434\_0 -04-06-2004 Model Systems Branch**

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

\*\*\* PAGE 10

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

CIA-CDD-----BIN-SER-----FOI-ICI-MSD-BUR-NET---STC-----EMS-----PWR-----NTS--SPE--RVD---AUS-----EXD  
U [REDACTED] NASA032015 LARC MOEB 6M00F3F W0.10000 S393 040317 090228  
5144

XSC-XAI-----XRC-----XLA-----XLG-----XCL-----XAD-----XAP-XAZ-TME  
VA WALLOPS ISLAND LARC 374947N 0752931W 00GDIPOLE V ND 4  
RSC-RAL-----RRC-----RLA-----RLG-----ACL-----RAD-----RAP-RAZ  
VA WALLOPS ISLAND 374947N 0752931W 24GPATCH 00002H0002T V T

\*\*\* SUP-----REM-----  
SUPPORTS FREE-FLIGHT REDUCED SCALE AIRCRAFT RESEARCH. VIDEO XMSN USED \*RAD,0002  
FOR REMOTE PILOT CONTROL OF RPV. TYPICAL 15 MINUTES OPERATION, AVERAGE \*ECT,U,WVC MODEL AAR05  
OF 5 OPERATIONS PER DAY, 3 DAYS A WEEK, AVERAGE 45 OPERATION PER MONTH. \*EGR,U,WVC MODEL AAR05

\*AGN,FLT=005 757-864-4713  
\*AGN,POC NAS [REDACTED]  
\*AGN,MFG IS WIRELESS VIDEO CAMERA

\*\*\*\*\* THE FOLLOWING RECORD NOTE(S) (DEFINITIONS FROM ANNEX A TO THE NTIA MANUAL) APPLY TO THE ABOVE ASSIGNMENT \*\*\*\*\*  
S393 THE BAND 2417-2450 MHZ WAS IDENTIFIED FOR REALLOCATION, EFFECTIVE AUGUST 10, 1995, FOR MIXED GOVERNMENT AND NON-GOVERNMENT  
USE UNDER TITLE VI OF THE OMNIBUS BUDGET RECONCILIATION ACT OF 1993.  
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.

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 NASA032015.

NR0823

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

20 Mar 04

\*\*\* PAGE 10

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

CIA-CDE---PRQ-----BIN--SER-----FOI-ICI-MSD-BUR-NET---STC---EMS-----PWR-----NTS-SPE-RVD---AUS-----EXD  
U M2434.000000 NASA032014 LARC MOEB 6M00F3F W0.10000 S393 040317 090228  
S144

XSC-XAL-----XRC-----XLA-----XLG-----XCL-----XAD-----XAP-XA2-TME  
VA FENTRESS NAVAL AIR ST LARC 364142N 0760805W 00GDIPOLE V ND 4  
RGC-RAL-----RRC-----RLA-----RLG-----ACT-----RAD-----RAP-RAZ  
VA FENTRESS NAVAL AIR ST 364142N 0760805W 24GPATCH 00007H0002T V T

\*\*\* SUP-----REM-----  
SUPPORTS FREE-FLIGHT REDUCED SCALE AIRCRAFT RESEARCH. VIDEO XMSN USED \*RAD,0002  
FOR REMOTE PILOT CONTROL OF REV. TYPICAL 15 MINUTES OPERATION. AVERAGE \*BOT,U,WVC MODEL,PAR05  
OF 5 OPERATIONS PER DAY, 3 DAYS A WEEK, AVERAGE 45 OPERATION PER MONTH. \*EOR,U,WVC MODEL,PAR05  
\*AGN,FLT-005  
\*AGN,POC NASA 757-864-4713  
\*AGN,MFC IS WIRELESS VIDEO CAMERA

\*\*\*\*\* THE FOLLOWING RECORD NOTE(S) (DEFINITIONS FROM ANNEX A TO THE NTIA MANUAL) APPLY TO THE ABOVE ASSIGNMENT \*\*\*\*\*  
S393 THE BAND 2417-2450 MHZ WAS IDENTIFIED FOR REALLOCATION, EFFECTIVE AUGUST 10, 1995, FOR MIXED GOVERNMENT AND NON-GOVERNMENT  
USE UNDER TITLE VI OF THE OMIBUG BUDGET RECONCILIATION ACT OF 1993.  
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.

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 NASA032014.

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

CIA-CDD---FRQ-----BIN-SER-----FOL-ICI MSD-BUR-NET---STC---EMS-----PWR-----NTS---SPE--RVD---AUS-----EXD  
U M2414.000000 NASA032013 IARC MOEB 6M00F3F W0.10000 S393 040317 090228  
S144

XSC-XAL-----XRC-----XLA-----XLG-----XCL-----XAD-----XAP-XAZ-TME  
VA NEWPORT NEWS IARC 371024N 0763036W 00GD1F0LE V MD 4  
RSC-RAL-----RRC-----RLA-----RLG-----ACL-----RAD-----RAP-RBZ  
VA NEWPORT NEWS 371024N 0763036W 24GPATCH 00017H0002T V T

\*\*\* SUP-----  
SUPPORTS FREE-FLIGHT REDUCED SCALE AIRCRAFT RESEARCH. VIDEO XMSN USED  
FOR REMOTE PILOT CONTROL OF RPV. TYPICAL 15 MINUTES OPERATION, AVERAGE  
OF 5 OPERATIONS PER DAY, 3 DAYS A WEEK, AVERAGE 45 OPERATION PER MONTH.

REM-----  
\*RAD,0002  
\*EOT,U,WVC MODEL AAR05  
\*EOR,U,WVC MODEL AAR05  
\*AGN,PLT-005  
\*AGN,POC NASA, 757-864-4713  
\*AGN,MFG IS WIRELESS VIDEO CAMERA

\*\*\*\*\* THE FOLLOWING RECORD NOTE(S) (DEFINITIONS FROM ANNEX A TO THE NTIA MANUAL) APPLY TO THE ABOVE ASSIGNMENT \*\*\*\*\*  
S393 THE BAND 2417-2450 MHZ WAS IDENTIFIED FOR REALLOCATION, EFFECTIVE AUGUST 10, 1995, FOR MIXED GOVERNMENT AND NON-GOVERNMENT  
USE UNDER TITLE VI OF THE OMNIBUS BUDGET RECONCILIATION ACT OF 1993.  
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.

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 NASA032013.

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

\*\*\* PAGE 12

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---EWS---DWR---NTS---SPE---RVD---AUS---EXD  
U M2434.000000 NAS042005 LARC XR 6M00F3P WC.10000 S393 040317 051231

XSC-XAL-----XRC-----XLA-----XIG-----XCL-----XAD-----XAP-XAZ-TME  
VA SMITHFIELD AIR FIELD LARC 370125N 0763518W 00GDIPOLE V ND 4

RSC-RAL-----RRC-----RLA-----RLG-----ACL-----RAD-----RAP-PAZ  
VA SMITHFIELD AIR FIELD LARC 370125N 0763518W 14GPATCH 00017H0002T V T

\*\*\* END  
SUPPORTS FREE-FLIGHT REDUCED SCALE AIRCRAFT RESEARCH. VIDEO XMSN USED  
FOR REMOTE PILOT CONTROL OF RPV. TYPICAL 15 MINUTES OPERATION, AVERAGE  
OF 5 OPERATIONS PER DAY, 3 DAYS A WEEK, AVERAGE 45 OPERATION PER MONTH.  
REM-----  
\*RAD,0002  
\*EQT,U,WVC MODEL AAR05  
\*EQR,U,WVC MODEL AAR05  
\*AGN,FUT=005  
\*AGN,POC NAS 757-864-4713  
\*AGN,MFG IS WIRELESS VIDEO CAMERA  
\*AGN,PATCH ANTENNA IS HANDHELD  
\*AGN,POINTED TOWARD AIRCRAFT

\*\*\*\*\* THE FOLLOWING RECORD NOTE(S) (DEFINITIONS FROM ANNEX A TO THE NTIA MANUAL) APPLY TO THE ABOVE ASSIGNMENT \*\*\*\*\*  
S393 THE BAND 2417-2450 MHZ WAS IDENTIFIED FOR REALLOCATION, EFFECTIVE AUGUST 10, 1995, FOR MIXED GOVERNMENT AND NON-GOVERNMENT  
USE UNDER TITLE VI OF THE OMNIBUS BUDGET RECONCILIATION ACT OF 1993.

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 NAS042005.

NR0823

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

20 Mar 04

\*\*\* PAGE 12

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

\*\*\* PAGE 11

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  
M2434.000000 NASA042004 LARC XR 6M00F3F W0.10000 S393 040317 051231

XSC-XAL-----XRC-----XLA-----XLG-----XCL-----XAD-----XAP-XAZ-TWE  
VA FELKER ARMY FIELD LARC 370757N 0763631W 00GDIP0LE V ND 4  
RSC-RAL-----RRC-----RLA-----RLG-----ACL-----RAD-----RAP-PAZ  
VA FELKER ARMY FIELD LARC 370757N 0763631W 14GPATCH 00017H00002T V T

\*\*\* SUP-----REM-----  
SUPPORTS FREE-FLIGHT REDUCED SCALE AIRCRAFT RESEARCH. VIDEO XMSN USED  
FOR REMOTE PILOT CONTROL OF RPV. TYPICAL 15 MINUTES OPERATION, AVERAGE  
OF 5 OPERATIONS PER DAY, 3 DAYS A WEEK, AVERAGE 45 OPERATION PER MONTH.  
\*RAD,0002  
\*EQT,U,WVC MODEL AAR05  
\*EQR,U,WVC MODEL AAR05  
\*AGN,FLT-005  
\*AGN,POC NASA, 757-864-4713  
\*AGN,MFG IS WIRELESS VIDEO CAMERA  
\*AGN,PATCH ANTENNA IS HANDHELD  
\*AGN,POINTED TOWARD AIRCRAFT

\*\*\*\*\* THE FOLLOWING RECORD NOTE(S) (DEFINITIONS FROM ANNEX A TO THE NTIA MANUAL) APPLY TO THE ABOVE ASSIGNMENT \*\*\*\*\*  
S393 THE BAND 2417-2450 MHZ WAS IDENTIFIED FOR REALLOCATION, EFFECTIVE AUGUST 10, 1995, FOR MIXED GOVERNMENT AND NON-GOVERNMENT  
USE UNDER TITLE VI OF THE OMNIBUS BUDGET RECONCILIATION ACT OF 1993.  
REVIEW AND UPDATE OF THIS AUTHORIZATION IS REQUIRED 5 YEARS FROM THE DATE IN RVD UNLESS THERE IS AN EXPIRATION DATE SHOWN IN EXP  
WHICH TAKES PRECEDENCE. THIS RADIO FREQUENCY AUTHORIZATION (RFA) IS GRANTED PURSUANT TO ACTION NUMBER NASA042004.

WR0823

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

20 Mar 04

\*\*\* PAGE 11