



Ames Spectrum Management Office  
Network Communications Branch, Code JTN

December 7, 2006

From: William K. Notley, Ames RF Spectrum Manager  
To: Randy Berthold, Code SGE  
Subject: National Telecommunication & Information Administration (NTIA) Radio Frequency Authorization (RFA) NASA068020

1. Subject and attached NTIA RFA is provided for use by your organization per all the applicable conditions cited below. Please review the entire RFA and let me know if you have any questions. You are required to sign for the RFA upon completion of a briefing I will provide you on it. A few of the topics that will be discussed in the briefing are as follows:

- a. The RFA is licensed for frequency 421.500 MHz
- b. The RFA is only to be used by Code SGE for command and control of an Unmanned Aerial Vehicle (UAV), and telemetry for its associated payloads within a 640 km radius of the geographical coordinates cited in the RFA.
- c. The RFA is non-transferable for temporary or permanent use by any other Ames organization or non-NASA entity, without prior authorization by the Ames RF Spectrum Manager.
- d. Without compromise, all other conditions and limitations applied to the RFA must be adhered to (bandwidth, modulation, power output, antenna types/gains, etc).
- e. Before each and every use of the RFA beyond 6 nautical miles of the coordinates cited in the license, the following coordination's must be secured via the Ames Spectrum Manager:

**C002:** SUBJECT TO COORDINATION WITH THE WESTERN AREA FREQUENCY COORDINATOR LOCATED AT THE NAVY PACIFIC MISSILE TEST CENTER, PT. MUGU, CAL., PRIOR TO USE WITHIN A 322 KILOMETER RADIUS OF PT. MUGU OR IN CALIFORNIA SOUTH OF LATITUDE 37 DEG 30 MINUTES N

**C019:** SUBJECT TO PRIOR COORDINATION WITH ARMY FREQUENCY MANAGEMENT, OFFICE (AFMO) - CONUS, 1214 STANLEY ROAD, SUITE 32, FT SAN HOUSTON, TEXAS 73234-5032. PHONE (210) 221-2820/2050; DSN 471-2820/2050

**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.

I have thoroughly read this letter, the associated RFA, received the briefing cited in para 1 and satisfied all my inquiries with the Ames Spectrum Manager in order to ensure as the official representative of my organization that this RFA will be used in absolute accordance with the RFA's approved purpose, NTIA Manual of Regulations, and NASA Radio Frequency (RF) Spectrum Management Guidelines (NPG 2570.1)

Randall W Berthold  
Signature

7 Dec 06  
Date

RANDALL W. BERTHOLD  
Print Name