



NEW MEXICO ARMY NATIONAL GUARD  
TASK FORCE GUARDIAN  
COUNTERDRUG  
4001 NORTHWEST LOOP, RIO RANCHO, NM 87124



NMAG-CDS

2 November 2007

MEMORANDUM FOR PM UAS (SFAE-AV-UAS), Redstone Arsenal, Alabama, 35898-5000

SUBJECT: New Mexico National Guard Application for Army Small Unmanned Aircraft Systems (SUAS) Air Worthiness Release for "Raven B" SUAS

1. The New Mexico National Guard (NMNG) respectfully requests an Air Worthiness Release (AWR), for the Raven B Small Unmanned Aircraft System (SUAS), to fulfill requirements for obtaining a Certificate Of Authority (COA) for Department of Defense (DoD) approved Counterdrug (CD) Operational Missions supporting Federal, State and Local law enforcement Agencies in Southern New Mexico from 15 December 2007 to 14 December 2008, under the guidelines of "Public Use."
2. In accordance with the Federal Aviation Administration (FAA) Certificate of Authorization, and Program Manger (PM) SUAS AWR process requirements, this office has coordinated with the Designated Army Regional Representative (DARR) (b) (6) of the Ft Worth, Texas Federal Aviation Administration Office.
3. Flight Operations. The following information details flight operations within the requested COA:
  - a. Area of flight operations and airspace classification. SUAS flight operations will be conducted within the proposed COA boundaries at all times. All operations will be conducted in Class G airspace with particular attention paid to avoid Restricted Area R-5115 and close coordination within the Tombstone B & C Military Operations Areas (MOA). All flights will be conducted at or below 1000 feet AGL.
  - b. Coordination Procedures. All personnel associated with the NMNG CD SUAS flight operations, including but not limited to the SUAS Pilots and Ground Observers, will participate in a detailed airspace and safety briefing prior to conducting flight operations IAW all FAA, Department of Defense, and New Mexico National Guard Regulations and Policies. The supervisor in charge of airborne SUAS operations will advise Albuquerque Air Traffic Control facilities prior to NMNG CD SUAS operations and when NMNG CD SUAS operations are terminated. Additionally, a NOTAM will be filed describing the location and altitude of NMNG CD SUAS operations.
  - c. Ground Observer Responsibilities. Ground observers will maintain continuous visual contact with the SUAS and provide pilots with instructions to remain clear of any potential collision with other aircraft while operating in the Class G airspace. At no time will visual observers conduct their duties more than one nautical mile laterally or 1000 feet AGL vertically from the SUAS.

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d. Communication Procedures. Prior to SUAS launch, and during the entire flight operation, SUAS pilots will be within two-way radio contact with ground observers to warn of potential hazards.

e. Method to avoid other aircraft. Ground observers will maintain visual contact with the SUAS, and two-way communication with SUAS ground station. Additionally, the onboard cameras/sensors will assist the pilot in locating other traffic.

f. Weather. All flight operations will be conducted in Visual Meteorological Conditions (VMC) under Visual Flight Rules (VFR). Additional consideration will be given for maximum sustained winds and gusts to ensure safe SUAS operations.

g. Emergency Procedures. Written emergency procedure checklists for the SUAS pilots/observers have been established for lost link, mission abort, and engine failure and are outlined within in the NMNG UAS Standard Operating Procedures (SOP) manual (enclosure).

h. UAS Characteristics. Raven SUAS characteristics are detailed within in the FAA COA application letter.

4. My points of contact for this request are (b) (6) or electronic correspondence at (b) (6)@northcom.mil, or (b) (6) or electronic correspondence at (b) (6)@nm.ngb.army.mil.

Enclosures:

As Referenced, on Page 3  
of this memorandum

(b) (6)

New Mexico National Guard