

## Classes of Airspace Description

NASA DFRC Ikhana Local Area  
UAS COA Application Attachment

NASA Dryden Flight Research Center (DFRC) has procured from General Atomics – Aeronautical Systems Incorporated, an MQ-9 Reaper aircraft and a Ground Control Station (GCS). DFRC has assigned the number “NASA 870” to the aircraft and renamed it “Ikhana” (pronounced ee-kah-nah, a Native American word from the Choctaw Nation meaning intelligent, conscious, or aware).

This attachment is intended to describe the Classes of Airspace required for NASA DFRC Ikhana Local Area operations.

**1. Classes of Airspace –**

i. "A"	No	
ii. "B"	No	
iii. "C"	No	
iv. "D"	No	
v. "E"	Yes	Climb, enroute, descent
vi. "G"	Yes	Take-off, climb, descent, landing
vii. "SUA"	Yes	R-2508/R-2515 Complex for take-off, climb, descent, and landing

**2. FAA COA Checklist V-6 (Revision 5, 6-15-2005) questions**

**1. Classes of Airspace**

a. Will any unique separation standards be required for this UAS operation?

A : No.

(b) (3) (A), (b) (3) (B)

c. What deviation should be expected by the UAS operations from normal aircraft operational characteristics? (I.e. climb/descent rates, turn rate, ability to maintain altitude, track conformance, etc.) A : None.

(b) (3) (A), (b) (3) (B)

e. What contingencies will be used in the event of lost communication? A : Assuming this refers to pilot to ATC communications: Telephones are the primary backup plan. Refer to attachment NASA Ikhana Local Area - Communication and Lost Communication Description Attachment for details.

- f. What contingencies will be used in the event of lost command/control link? **A:**  
Reference the following attachments:  
NASA Ikhana Local Area - Mission and Lost Link Procedures Description Attachment,  
NASA Ikhana Local Area - Lost Link Aircraft Maneuvers Flight Manual 1 Aug 2007 Figure 1-58.doc,  
NASA Ikhana Local Area - Lost Link Datalink Recovery Flight Manual 1 Aug 2007 Figure 1-57.doc
- g. Are there any unique provisions necessary in the event of UAS failures? **A:**  
Reference the following attachment: NASA Ikhana Local Area - Emergency Procedures Description Attachment