

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