

Electronic Detection of Other Aircraft Description

NASA DFRC 2007 Fire Mission
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 Ikhana capabilities to detect other aircraft in the NAS. See also the attachment: NASA 2007 Fire Mission - Electronic Surveillance-Detection Attachment.

1. Electronic Detection Capability –

- 1.1. **Pilot Using Forward Cameras** – The pilot can use the fixed forward cameras (30° field of view) to provide a limited detection capability.
- 1.2. **Automatic** - The aircraft has no automatic electronic means to detect other aircraft.