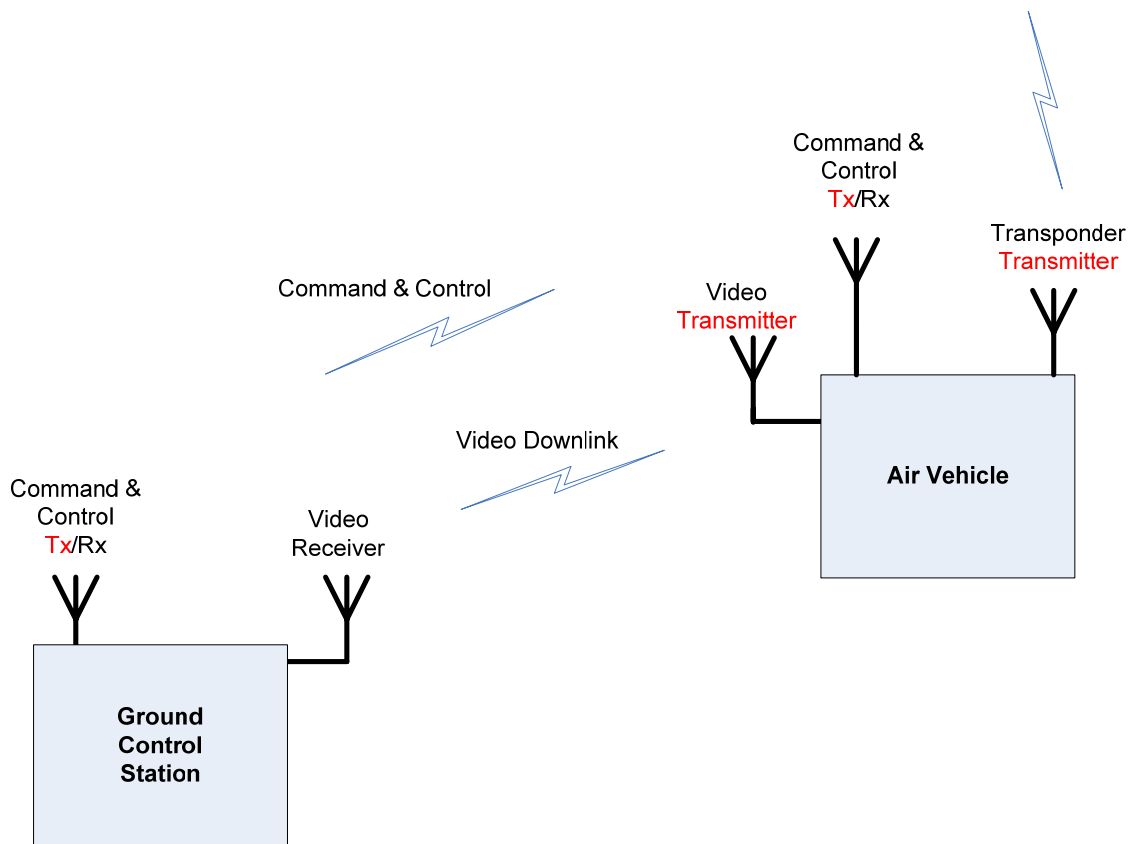


FCC Form 442, Question 6 – Attachment  
File No. 0014-EX-ST-2010

This program is a cooperative effort between the FAA and the Miami-Dade Police Department (MDPD) to develop operational procedures for flying a Honeywell Micro Air Vehicle (MAV) within the Miami-Dade area. Due to the proximity of local air traffic corridors in the Miami-Dade area, the FAA has requested a transponder type device to be operational during MAV flights. The transponder is a Mode S ADS-B Low Power Beacon for use on Small Unmanned Aerial Systems (SUAS). It transmits on 1090 MHz and operates at 1.0 watt in accordance with FAA and ICAO standards for the extended squitter DF18 messages used (as such it is compatible with FAA approved National Airspace System (NAS) receivers for 1090 MHz Mode S ADS-B Extended Squitters).

The command and control link has been integrated via a Microhard Systems Inc. radio operating in the 902-928 MHz range. The video feedback is accomplished via an L3 Communications Inc transmitter (operating in the 2300-2500 MHz range) onboard the air vehicle and a receiver on the ground control station. The "TICK" transponder is operational at all times once the engine is started to notify near-by air traffic of the MAV location. (See the notional antenna configuration figure below)



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The operations covered in this application apply to three separate locations:

The first site is at the Honeywell facility. This is Honeywell's tethered flight facility in Albuquerque, New Mexico. Location is: N35 11' 32.35", W106 35' 29.84". The elevation of this site is approximately 5100 feet MSL. Since the vehicle is constrained by the tether, the maximum altitude of the vehicle is 180 feet AGL.

The second site is on the New Mexico National Guard Armory facility in Rio Rancho, New Mexico and is approximately 20 miles west and north of Albuquerque. Location is: N35 22' 27.64", W106 39' 06.12". The elevation of this site is approximately 5640 feet MSL. This site is where we perform flight test of our unmanned air vehicles, although we operate below 250 feet AGL.

The third site is on the MDPD test facility approximately 20 miles south and west of Miami. Location is: N25 46' 12.92", W80 21' 57.76". The elevation of this site is approximately sea level (0 feet MSL). This site is where MDPD performs flight test to develop operational procedures. Operations are limited to below 400 feet AGL.