

SYSTEM DESCRIPTION—Communication System

Summary: This describes the communication system used with the CropCam UAS.

Description:

The flight crew will communicate with each other during flight of the CropCam UAS. This will be done using the following communications equipment:

1. FRS Radios—The team will make use of Motorola Talkabout Family Radio System (FRS) VHF radios. The pilot assistant and PIC will each have a radio plus one spare. The spotters will also have radios.
2. VHF Aircraft band transceiver—The Pilot assistant will have a VHF transceiver that can be used to communicate with ATC or with aircraft that may enter the flight area.
3. Cellular Telephone—Each member of the flight crew will have their cell phones and can communicate via phone in the event that problems arise with the VHF radios. These may also be used to summon assistance in the event of an emergency and to notify ATC in the event of lost link.
4. HF radio—The support trailer at the launch and recovery site will contain a Harris RF-280 tactical transceiver that can transmit/receive on HF bands. Two of the flight crew possess amateur radio licenses and are qualified to operate the HF radio.

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