

## **Flight Monitoring/Observation Procedures – SiCX-12**

There are two persons that will act as visual line-of-sight observers during the proposed flights. The PIC will serve as the primary observer, as he will be required to maintain visual contact for the duration of the mission in the event that manual control/intervention is necessary. The PIC will have in his possession a cell phone, an air band transceiver and appropriate two-way push to talk radio for communication with other crewmembers. The secondary observer will not only serve as a backup to the safety pilot, but will also help to monitor intrusions by unauthorized persons/vehicles, both on the ground as well as in the air. In addition to a two-way push to talk transceiver and a cell phone, the secondary observer will be equipped with binoculars (must exercise caution looking in the direction of the sun). The third crewmember at the Mission Console inside the Operations Staging Trailer, although not acting directly as an observer will monitor telemetry data from the UAS and the Primary Flight Display for abnormal indications and will make determinations as to whether the mission is progressing normally and according to the mission plan. The Mission Control crewmember will also be in direct communications with the PIC and secondary observer and will have in his possession a cell phone and two-way push to talk transceiver to notify other crewmembers of any anomalies during flight. In addition, each crewmember will be supplied with an emergency air horn to alert the PIC to an emergency situation during any period in which radio communications have failed. Any changes to a current mission plan during flight that result in change of altitude, heading, course, or groundspeed will require concurrence from the other crewmembers and will be accompanied by a countdown before execution.