**UAV Advanced Flight Skill 10**

**- Loss of first person view signal procedures -**

**Objective:** To teach the pilot how to react to and remedy loss of FPV signal

**Discussion topics:**

* Reasons why a pilot could lose FPV signal (too far from drone to controller, disconnected cable(s), too much RFI, high voltage transmission wires in the area etc.
* Trouble shoot procedures for lost signal from UAV to the controller
* If the signal is not regained, discuss the RTH (Return to Home) emergency procedures
* Manually and visually take control of the UAV and RTH manually
* Ascertain the orientation of the UAV
* Communicate with the VO and let the VO know of the emergency

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**Pilot exercises:**

* Setup the UAV and controller
* Send live image to remote monitor system
* Simulate loss of video feed and visually fly the UAV to home
* Communicate and coordinate with visual observer and CP

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**Common mistakes:**

* Pilot looks through monitor instead of flying the drone home visually
* Pilot fails to communicate with VO
* VO does not insure the landing area is clear

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* Pilot recognizes the loss of signal
* Pilot tells VO of signal loss
* Pilot and VO coordinate on the emergency RTH procedures
* Pilot assumes manual control and determine the UAV orientation
* Pilot initiated RTH without using the RTH button
* Pilot is able to approach the launch/landing area and prepare for landing
* Pilot performs a safe landing by FPV and/or by VO feed back