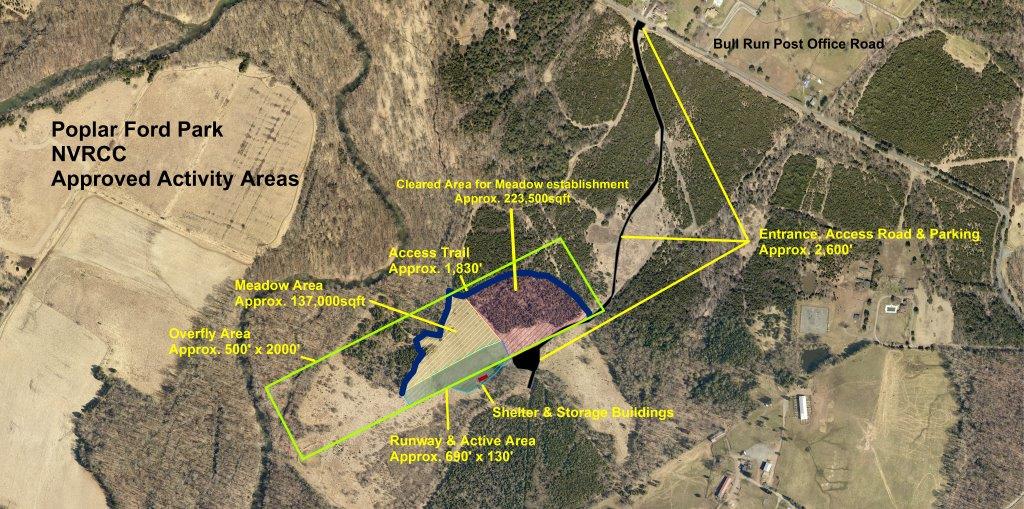
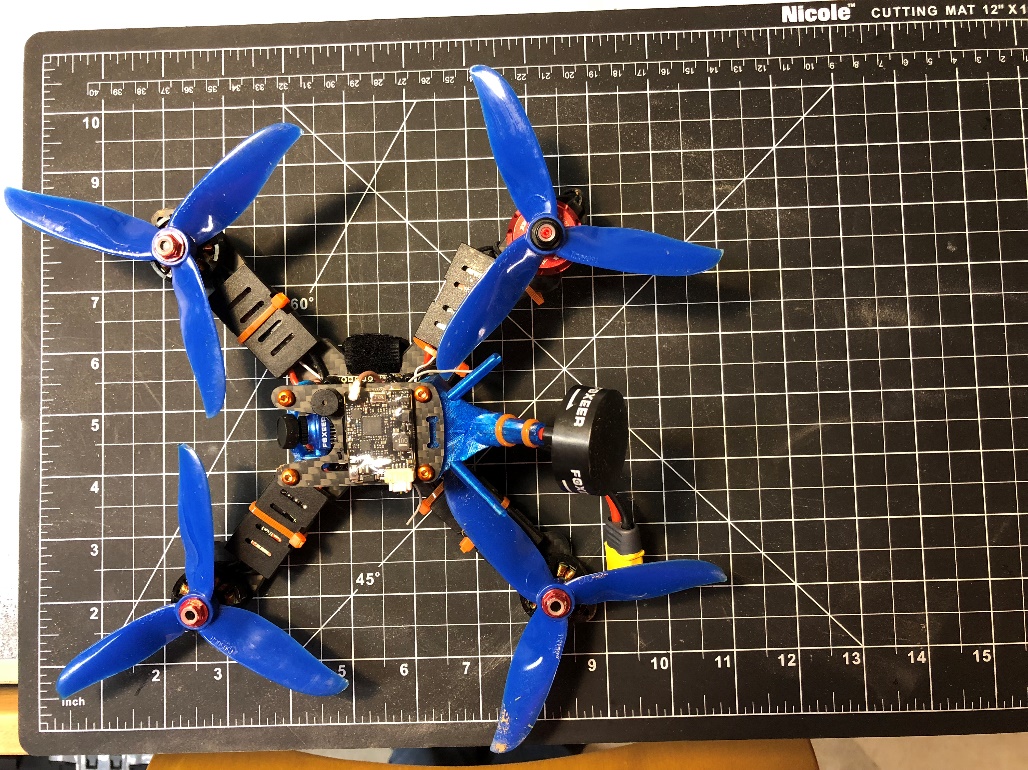
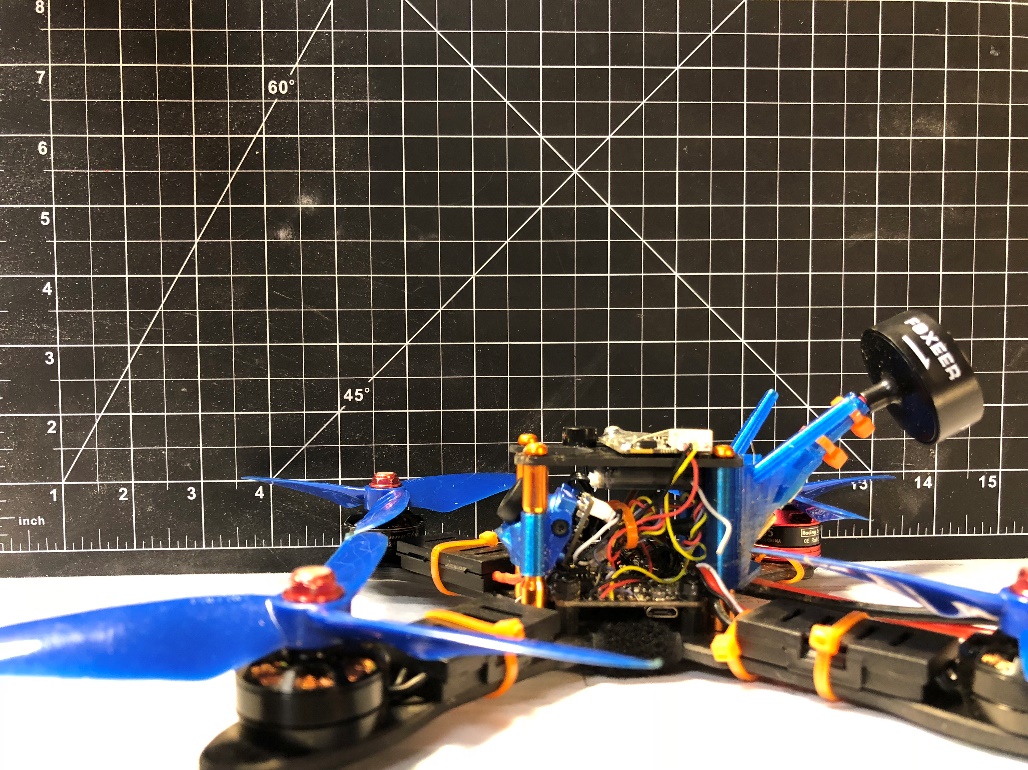
NVRC is requesting a waiver to conduct FPV flight operations at our field at Poplar Ford Park for the specific purpose of hosting multirotor racing on the 2nd Sunday of each month. Pilots that attend NVRC’s proposed races can come from around the Washington, DC area and are not necessarily NVRC members, but are the guests of NVRC race organizers. All pilots participating in multirotor races will be required to be current AMA members.

1. **Background**
   1. NVRC is an AMA Leader Club with flying fields at Poplar Ford Park in Chantilly, VA and at the Lorton landfill facility in Lorton, VA. The flying field at Poplar Ford Park is rented from the Fairfax County Park Authority through a Memorandum of Understanding (MOU) that cites all pilots at Poplar Ford shall be AMA members, and non-NVRC members must be escorted by current NVRC members.
   2. NVRC has been operating at Poplar Ford since 2002 without incident
   3. All NVRC pilots are qualified to fly by an NVRC flight training instructor and must pass a flight test before being allowed to operate model aircraft independently at Poplar Ford.
   4. All non-NVRC pilots attending a race hosted by NVRC will be required to sign a waiver affirming their ability to safely control the aircraft.
2. **Multirotor Racing**
   1. Multirotor racing involves piloting a small multirotor equipped with a video camera and video transmitter through obstacles or gates around a proscribed course. Pilots maneuver the multirotors through the course by using first person view (FPV) goggles or screens.
   2. Current NVRC club members will be allowed to practice for multirotor races at any time providing they abide by NVRC, AMA, and MultiGP safety and FPV regulations.
   3. Races typically last two minutes.
   4. Aircraft Specifications
      1. Multirotor racing aircraft are often custom built by pilots resulting in variable configurations. However, drone racing aircraft are designed with basic principles that promote speed and agility over flight time and range.
      2. Multirotor (drone) racing aircraft are typically about 10 inches by 10 inches in size, powered by four electric motors, each with a 5” inch 3 bladed propeller. Propeller specifications vary and can be anywhere from 2 bladed to 6 bladed or more based on the pilot’s preference.
      3. Drone racing aircraft have no cargo capacity, do not carry global positioning equipment (GPS), and have flight times of up to 3 minutes.
      4. Drone racing aircraft at NVRC will be limited to 25 milliwatts (mW) of video transmission power at 5.8 gigahertz (GHz) with omnidirectional antennas. This generally limits the effective equipment range of the useable video link to less than 2,600 ft.
      5. Drone racing aircraft typically weigh about 500g, with the battery attached.
3. **Racing Operations**
   1. Drone racing sponsored by NVRC at Poplar Ford park will be conducted in accordance with AMA Document 550 FPV regulations as well as MultiGP regulations.
      1. Drones are only permited to take off, fly, and land over the race course. Flights over other pilots or spectators are prohibited.
      2. Video frequency transmission frequencies and power output will be check with a spectrum analyzer before each race.
      3. All races will be organized and run by current NVRC members.
      4. A pilot’s safety briefing will be conducted before every race. An NVRC contest director will run each race and will be supported by a designated safety officer at a minimum.
      5. All drone racing pilots will always have a line of sight spotter at their side that can call out obstacles and hazards on the course or take over command of the aircraft via line of sight.
      6. Races will be limited to no more than 6 aircraft in the air at any given time.
      7. Pilots will have no reason to climb more than 50 ft in altitude to complete any racing course.
4. **Supporting Materials**
   1. NVRC flight area at Poplar Ford Park



* 1. Typical racing drone





* 1. AMA Document 550

See Attached

* 1. MultiGP Racing Safety Regulations

See Attached