EXECUTIVE SUMMARY

Objective

To capture aerial shots, as directed by the client, at the Ferry Building on the Embarcadero. This document will illustrate our plans to carry out commercial drone operations in controlled air space that meet and exceed FAA standard operating procedures. During production the SFG Staff will be responsible for crowd control and informing bystanders of production activity.

According to the FAA Sectional Chart above, we are operating below Class Bravo airspace for San Francisco International airport. In order to inform pilots of our planned operations on April 21st, we file a NOTAM or Notice To Airmen. We do this through 1800wxbrief which is an online preflight resource available to all pilots operating in the National Airspace or NAS.
FILING THE FLIGHT PLAN: NOTICE TO AIRMEN

1800wxbrief Information Provided

- Date and time for our flight
- Location with 1 Nautical Mile Radius of the AO (Area of Operations)
- Max Altitude of flights
- Aircraft ID#
- Flight Team Spotter Contact Information

With the NOTAMs on file we show up on their Flight Service website as purple points on the map and our Areas of Operations are the shaded orange circles informing all pilots flying in the local airspace of commercial drone operations.

There are three heliports within our AO. The NOTAM satisfies the need to contact them about our production. Our Spotter will be monitoring air traffic in real-time using Flightradar24 as well as monitoring police and fire departments radio frequencies during flight operations.
We will be operating the DJI Inspire 1 with both the X5 4K Micro 4/3 sensor (shown above) and the Zenmuse Z3 4K telephoto camera (shown below). The X5 has a larger sensor, higher bit rate video capture and will produce the superior images. This will be our A cam. The Z3 will allow us to zoom in on our subjects, specifically at Coit Tower, while keeping a safe distance away to avoid flying over people. We will also have a back up Inspire 1 on site.
FAA regulations allow flights 30 minutes before official sunrise and 30 mins after official sunset. The chart below shows sunset on 21 April to be at 7:51pm. We can be in the air at 6:00pm and as late as 8:21pm.

We recommend a 5:30pm Flight Team call time at The Ferry Building. This will give is sufficient time for pre-flight checks and the ability to anticipate the sun’s position for the best shot compositions.
FLIGHT PLAN: FERRY BUILDING

Flight Mission Brief:

- Date | Time | Duration: 4/21/2017 | 1700 | 2 hours
- Objective: Film the flag(s) above the entrance to the Ferry Building as well as a fly in from over the bay toward the Embarcadero and Ferry Building.
- Max Altitude: 400 ft AGL (Above Ground Level)
- Operating Altitude: 30 ft AGL - 200 ft AGL
- Orbit Radius: Approximately 50 ft from the Clock Tower center point.
- Landing Zone: Proposed landing zones are marked on the map. These locations keep us away from the main flow of foot traffic. Pilot & Visual Observer will be operating across the street from the front of the target building.
- Flight Paths: The green arrow shows the strafe pattern across the face of the target building. The orange arrow illustrates the vertical flight path that will parallel the clock tower. These two maneuvers will require SFPD to block off foot traffic on the sidewalk. The teal arrow shows our approach to the Ferry Building from over the bay to achieve the classic San Francisco skyline view. The filed NOTAM gives notice to all pilots that our drone operations will occur within a 1 nautical mile radius of the Ferry Building. That gives us a maximum operating distance of 3,098 ft away, over the bay, to approach the target building. As always, the ceiling for drone flight is 400 ft above ground level.