UAS Mission Planning Template

|  |  |  |  |
| --- | --- | --- | --- |
| Mission Name: |  | Mission Date: |  |

Instructions: Fill out the information below.

Aircraft

|  |  |  |  |
| --- | --- | --- | --- |
| Reg # | Make | Model | Size/Weight |
|  |  |  |  |
|  |  |  |  |

Anticipated Crew

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Crew Member | Role | Flights (approx) | | | Experience (yes/no) | | | | Notes |
| Total | Last 90 Days | In Type | RPIC | VO | GCS | Other |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

Flight Operations

|  |  |
| --- | --- |
| Mission Goal |  |
| Secondary Objectives |  |
| Data Collection Requirements |  |

Location

|  |  |
| --- | --- |
| GPS Coordinates |  |
| Address (or Nearest City) |  |
| Airspace Class |  |
| Distance to nearest airport |  |
| Elevation |  |
| Nearest Emergency Center or Hospital |  |

Site Analysis Process

1. Print out a satellite image of the site
2. Evaluate Data Requirements
   1. Identify the region(s) of interest
   2. Identify the best visual angles
      1. Consider the time of day, shadows and reflective surfaces
   3. Estimate the best flight region and flight paths
3. Identify any constraints
   1. Mark any vertical structures
      1. Buildings
      2. Towers, powerlines
      3. Trees
      4. Other vertical obstructions
   2. Mark any ground obstructions
      1. Smaller structures
      2. Gates, Fences
      3. Hedges, Shrubs
      4. Other obstructions that may impede access
   3. Identify any other safety or regulatory issue
      1. Fire risks
      2. Wildlife impacts
      3. Physical access to site
   4. Identify potential site access points by non-participants
      1. Pedestrian walkways
      2. Bike paths
      3. Building doors/access points
4. Refine flight plan with constraints
   1. Select a launch/recovery site that can be reasonably secured
   2. Assess whether any vertical structure may impede visual line of sight
   3. Assess whether any ground obstruction may limit any emergency recovery operations
   4. Consider multiple flights per Mission to achieve mission goals
5. Plan flight crew locations
   1. Pilot and VO at Launch/Recovery point
      1. Consider if Pilot/VO may require relocation during flight operation
   2. Remote VOs and other ground crew support
      1. May be tasked to redirect non-participant traffic away from flight zone
6. Iterate as necessary to meet Mission Objectives

Flight Mission Overview

|  |  |  |  |
| --- | --- | --- | --- |
| Expected Field Time |  | | |
| Expected # of flights |  | Expected duration of each flight |  |
| Mission Profile  (Step by Step procedures) |  | | |

Anticipated Weather Conditions

|  |  |
| --- | --- |
| Temperature |  |
| Wind Direction |  |
| Wind Speed |  |
| Precipitation Chance |  |
| Visibility |  |
| Weather Alerts |  |