**Unmanned Free Balloon (“UFB”) Launch Approval**

**SECTION 1 – LAUNCH INFORMATION**

1. Person responsible for the launch: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	1. Faculty advisor if the above is a student: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Launch start & end dates: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Total Crew: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Launch Sites *(add more locations as needed)*

|  |  |
| --- | --- |
| Site 1 Name: insert | Site 2 Name: insert |
| Latitude & Longitude : insert | Latitude & Longitude : insert |
| Written permission from Property owner: insert | Written permission from Property owner: insert |

1. Describe the geographical location of launch site(s): Insert
2. Purpose of the launch(es): insert

**SECTION 2 - BALLOON INFORMATION**

1. **4-lb Rule.** If the UFB carries any payload package that weighs more than 4 pounds, does the package weight/size ratio exceed 3 ounces per square inch?

Choose an item.

1. **6-lb Rule.** Will the UFB carry a payload package that weighs more than 6 pounds?

Choose an item.

1. **12-lb Rule.** Is the combined weight of two or more payload packages more than 12 pounds?

Choose an item.

1. **50-Pound Rule.** Does the rope or string that is used to suspend the payload from the UFB require a force of more than 50 pounds to separate the payload from the UFB?

Choose an item.

***Complete Section 3 if any questions in Section 2 are marked “yes.” Otherwise, skip to Section 4 and complete.***

**SECTION 3 - BALLOON REQUIREMENTS -**

1. **Operating Limitations.** Does the UFB have authorization from ATC to operate below 2,000 feet above the surface within the lateral boundaries of the surface areas of Class B, Class C, Class D, or Class E airspace designated for an airport?

Choose an item.

1. **Equipment & Markings.** Is the UFB equipped with at least 2 payload cut-down systems or devices that operate independently of each other?

Choose an item.

1. **Equipment & Markings.** Is the UFB equipped with at least two methods, systems, devices, or combinations thereof, that function independently of each other, for terminating the flight of the balloon envelope?

Choose an item.

1. **Equipment & Markings.** Is the UFB envelope equipped with a radar reflective device(s) or material that will present an echo to surface radar operating in the 200 MHz to 2700 MHz frequency range?

Choose an item.

1. **Equipment & Markings.** Is the UFB, its attachments, and payload (whether or not they become separated during operation) equipped with lights that are visible for at least 5 miles and that have a flash frequency of at least 40, and not more than 100 cycles per minute if operations occur between sunset and sunrise below 60,000 feet standard pressure altitude?

Choose an item.

1. **Equipment & Markings.** Is the UFB equipped with a trailing antenna that requires an impact force of more than 50 pounds to break it at any point along the trail?

Choose an item.

* 1. **If Yes:** Does the trail contain colored pennants or streamers that are attached at less than 50 foot intervals and that are visible for at least one mile?

Choose an item.

1. **Equipment & Markings.** Is the UFB equipped with a suspension device (other than a highly conspicuously colored open parachute) more than 50 feet along that is colored in alternate bands of high conspicuity colors or has colored pennants or streamers attached which are visible for at least one mile for operations between sunrise and sunset?

Choose an item.

1. **Notice requirements.** I shall comply with the notice requirements in [14 CFR 101.37](https://www.ecfr.gov/current/title-14/chapter-I/subchapter-F/part-101/subpart-D#:~:text=%C2%A7%20101.37%20Notice%20requirements.) .

Choose an item.

1. **Balloon position reports.** I shall comply with the balloon position requirements in [14 CFR 101.39](https://www.ecfr.gov/current/title-14/chapter-I/subchapter-F/part-101/subpart-D#:~:text=%C2%A7%20101.39%20Balloon%20position%20reports.).

Choose an item.

1. **Certifications.** I shall not operate the UFB:
	1. at any altitude below 60,000 feet standard pressure altitude where the horizontal visibility is less than five miles. (101.33(c)).
	2. over a congested area of a city, town, or settlement or an open-air assembly of people not associated with the operation during the first 1,000 feet of ascent. (101.33(d)).
	3. in a manner that impact of the balloon, or part thereof including its payload, with the surface creates a hazard to people or property not associated with the operation. (101.33(e)).

Choose an item.

**SECTION 4 - CERTIFICATIONS**

I certify that:

1. The UFB shall not be operated in a manner that creates a hazard to other people, or their property.
2. No person operating a UFB shall allow an object to be dropped therefrom, if such action creates a hazard to other persons or their property.
3. The UFB shall not be operated at any altitude where there are clouds or obscuring phenomena of more than five-tenths coverage.

**Date**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Signature**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Name, Title**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Email this application to*** ***ored-uas@uidaho.edu*** ***.***