#### 2.1 General Information.

This supplement is issued to cover additional actions to be taken to safely and efficiently free fly an Ultramagic Hot air balloon at night.

The applicability of this supplement is subject to the definition of night flying, which corresponds to the following diagram. Beware, however, that national regulations take precedence:



This supplement does not define operational nor training requirements (i. e. restrictions in airspace, flight plan reporting, minimum visibility, ceiling, crew licensing, etc.), which may vary from country to country.

#### 2.2 Limitations

# Additional mandatory equipment

- 1. Appropriate anti-collision lights (see §2.6).
- 2. 720 Channel air band radio.

## 2.3 Emergency Procedures

No change

#### 2.4 Normal Procedures

Additionally to the equipment listed in §2.2, it is recommended to carry at least two non-handheld torches on board. When the required instruments do not have backlit display (auto illumination) or the visual identification of the balloon control means is jeopardised, the use of torches becomes mandatory.

The use of GPS positioning devices or equivalent (e.g. maps and compass) is strongly recommended.

Prepare very carefully for the flight paying special attention to the meteorological conditions and airspace to be encountered.

**CAUTION:** Landing before sunrise should not be attempted except in an emergency. Flight must be planned considering only the approach and landing in daylight. Thus ensure sufficient fuel is carried to permit a landing at least 1 hour after sunrise.

**CAUTION:** Fuel consumption at night is substantially higher than in daylight due to the lack of solar heating.

**CAUTION:** In case of approaches with western winds, the landing takes place facing the sunrise, thus reducing the visibility of possible obstacles.

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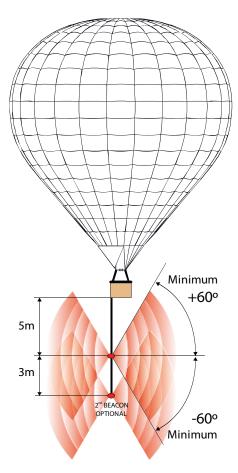
## 2.5 Loading

No change.

# 2.6 Balloon and Systems Description

The anti-collision lights are recommended to be at least as follows:

- Releasable in case of snagging
- Retractable from the basket (pilot position)
- Horizontal coverage of 360°
- Lighting beam non-disturbing for the crew
- Minimum visibility of 2NM in clear night conditions
- Flashing red light (40 to 140 flashes per minute)
- Meet the following disposition:



NOTE: National regulations take precedence in the requirements for anti-collision lights

**CAUTION:** The capacity of the power source must be sufficient to feed the lighting means during the flight at night time.

### 2.7 Balloon Maintenance, Handling and Care

No change

### 2.8 Other Manufacturers Equipment

No change

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