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STATUTORY INSTRUMENTS

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**2021 No. 792**

**The Space Industry Regulations 2021**

**PART 8**

**Safety of operator's spaceflight activities**

**CHAPTER 5**

**Additional safety requirements for launch vehicles with human occupants**

**SECTION 4**

*Specific obligations of pilot in command, flight crew or remote pilot*

**Obligations of pilot in command or remote pilot immediately before the flight**

- 114.** Immediately before a flight, the pilot in command or the remote pilot must—
- (a) perform an inspection of the launch vehicle and its systems and equipment to the extent that it is practicable to do so, and
  - (b) consult any of the spaceflight operator's written records relating to the fitness, condition and preparation of the launch vehicle, in so far as necessary to ensure the flight is carried out safely.

**Obligations of pilot in command or remote pilot to carry out flight safely**

**115.—(1)** If a launch vehicle has a pilot in command or a remote pilot, that pilot must give commands, make appropriate decisions and take appropriate actions during the flight of that vehicle which are necessary to ensure that the flight is carried out safely.

(2) A pilot in command or a remote pilot must inform the spaceflight operator and the regulator at the earliest practicable opportunity if any of the commands, decisions or actions referred to in paragraph (1) did not comply with provisions contained in or made under the Act and the conditions of the launch operator licence or return operator licence.

**Pilot in command, flight crew or remote pilot to remain at stations**

**116.—(1)** If a launch vehicle has a flight crew, that crew must during the flight remain at their stations secured in their seat by a safety belt or other restraint device unless there is more than one member of the flight crew and the pilot in command permits a member to leave the member's station temporarily—

- (a) to provide urgent assistance to another human occupant, or
- (b) for an urgent physiological or operational need.

(2) If a launch vehicle has a pilot in command that pilot may during the flight only leave the pilot in command's station temporarily where—

- (a) there is more than one member of the flight crew,
  - (b) the flight can be carried out safely by another member of the flight crew, and
  - (c) there is an urgent physiological reason or operational need to do so.
- (3) If a launch vehicle has a remote pilot that remote pilot may during the flight only leave the remote pilot's station temporarily where—
- (a) there is more than one remote pilot,
  - (b) the flight can be carried out safely by that other pilot, and
  - (c) there is an urgent physiological reason or operational need to do so.

#### **Pilot in command's obligations to a spaceflight participant about stations**

**117.** If a launch vehicle has a pilot in command, that pilot must ensure that each spaceflight participant is seated at the spaceflight participant's assigned station and secured in that participant's seat by a safety belt or other restraint device—

- (a) before launch and landing and during any taxiing operation necessary for the operator's spaceflight activities,
- (b) during periods of flight when the effects on the human body of the forces due to acceleration and their duration are most acute, and
- (c) at any other time when necessary for the flight to be carried out safely.

#### **Remote pilot's obligations to a spaceflight participant about stations**

**118.** If a launch vehicle has a remote pilot, that pilot must ensure that each spaceflight participant is seated at the spaceflight participant's assigned station and secured in that participant's seat by a safety belt or other restraint device—

- (a) before launch and landing and during any taxiing operation necessary for the operator's spaceflight activities,
- (b) during periods of flight when the effects on the human body of the forces due to acceleration and their duration are most acute, or
- (c) at any other time when necessary for the flight to be carried out safely.

#### **Launch director's or safety manager's obligations to a spaceflight participant about stations**

**119.—(1)** If a launch vehicle has no pilot in command or remote pilot—

- (a) where the operator's spaceflight activities are authorised by a launch operator licence, the launch director, or
- (b) where those activities are authorised by a return operator licence, the safety manager,

must ensure that each spaceflight participant is seated at the spaceflight participant's assigned station and secured in that participant's seat by a safety belt or other restraint device at the times or during the periods referred to in paragraph (2).

(2) The times or periods are—

- (a) before launch and landing and during any taxiing operation necessary for the operator's spaceflight activities,
- (b) during periods of flight when the effects on the human body of the forces due to acceleration and their duration are most acute, and
- (c) at any other time when necessary for the flight to be carried out safely.