Update on the UAE Regulatory Framework

Regulation on Human Space Flight
The UAE Space Sector Regulatory Framework
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Scope of Applicability

**Space Activities:** “Activities targeting an area above 80 km, including its exploration, usage or utilization of the same, or making impact thereon in accordance with the provisions of the law.

- This Law shall apply to all Space activities carried out:
  - Conducted on or from the territory or facilities of the UAE
  - Conducted by natural persons or juridical entities with the nationality of the UAE
  - Territory or Quasi-territory
  - Operators with the nationality of the UAE or with Head quarters in the UAE
# Definitions

<table>
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<tr>
<th><strong>Human Space flight</strong></th>
<th>A space activity that intends to transport human into, through, and from outer-space.</th>
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<td><strong>Participants of the Human Space Flight</strong></td>
<td>Any individual who is not a member of the Crew and who is on the board the Space Object during the Human Space Flight.</td>
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Purpose & Scope

• The Regulation Aim to achieve:

✓ Regulate the practice of Human Space Flight activities to ensure that they are safely practiced.
✓ State the main requirements related to the Operator, Crew, and Participants of the Human Space Flight.

• The provisions of these Regulations shall apply to:

1. The Applicant or Operator wishing to conduct a Human Space Flight:
   - Crew
   - Remote Operator

2. The Participants of the Human Space Flight or any member of the Crew in an authorized space activity
Authorization for Human Space Flights

1. Applicant shall ensure compliance with:
   • Regulation for Space Activities
   • Regulations for Human Space Flight

2. Revision of application:
   UAE Space Agency conduct a revision of the application

3. Compliance review:
   UAE Space Agency ensure compliance
Obligations of the Operator

Towards the Crew
- Notification: Understanding and acceptance of Space Activities Risks
- Training that varies according to the role and involvement level
- Command Sequence declarations
- Health and Fitness
- Safety readiness of Space Object
- Required qualifications

Towards the Participants
- Informed consent: Understanding and acceptance of Space Activities Risks
- Security and safety measures

Simplified for illustration purposes
Training

Training obligations on Operators towards Crews and Participants:

• Shall show best efforts to ensure that training equipment is Safe & Simulate to extend possible the experience and environment for intended mission and space objects to be used.

• Maintain and update training records.

Obligations on Crew members:

• Pass training that enable him to perform the intended role on Space Activity.

• Trained on all possible scenarios including mission abortion and emergencies.

• demonstrate the ability to withstand pressure during the flight.

Obligation on commander of Space Object and the Remote Operator:

• Obtain a command's license from the Agency or from other entity recognized or accredited by the Agency.

• Have expertise and skill required for the operation and command of a Space Object that will be used in the aerospace.
Liability and Insurance (in addition to 3\textsuperscript{rd} Party)

**Human Space Flight Authorization document requirements**

- **Crew insurance policy**
  - covering cases of injury, death and damage to property during the Human Space Flight

- **A declaration to wave the UAE liability**
  - towards any damage that may be caused to the Crew on board the Space Object during the Human Space Flight.

**Liability of the UAE and UAE Space Agency is waived through an acknowledgement form by the Operator, Crew and Participants**

- **Operator**
- **Owner**
- **Participants**

**Simplified for illustration purposes**

**special agreements to regulate liabilities**
- (injury, death, damage to property).