Fundamental Regulatory Principles relating to Emerging Space Activities: Relevance for (potential) Aerospace Activities

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Space Related Technology – Rapid Development

- Space Technology relevant for many aspects of life
 - commercial / civil / scientific / military
- Outer Space services burgeoning commercial industries
- => Evolving new technology
 - small satellites
 - human transportation / tourism and leisure
 - orbital
 - sub-orbital
 - 'aerospace' aspects of air space and outer space
- (Overly) optimistic future projections?
 - but eventually an 'industry' will emerge

Legal 'Basis' of Outer Space

- Sputnik (1957) need for regulation
- => fundamental principles (CIL and subsequently Treaty)
 - legal 'status' of outer space
 - different legal basis from air law
 - freedom principle
 - non-appropriation principle
 - not based on territoriality / sovereignty
 - => national law does not apply

International Legal Framework

- UNGA Resolutions 1960s
 - => a series of United Nations Treaties
- 1980s =>
 - UNGA Principles
 - 'hard' and 'soft' law guidelines
 - (national law)
- Treaties
 - Outer Space Treaty (1967)
 - Rescue Agreement (1968)
 - Liability Convention (1972)
 - Registration Convention (1975)
 - (Moon Agreement) (1979)
 - => before aerospace technology emerged

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(some) Relevant Treaty Principles

- Treaties refer to 'Space Objects'
 - 'includes component parts of a space object as well as its launch vehicle and parts thereof'
 - cf. an 'aerospace' object not defined under space law
- Astronauts
 - 'envoys of mankind in outer space'
 - State obligations to rescue astronauts
 - cf. a 'human spaceflight participant'
 - rights / obligations?
- Responsibility
 - States international responsibility for 'national activities in outer space'
 - authorization
 - continuing supervision
- <u>Liability</u>
 - 'Launching State(s)' bears international liability for damage caused by a space object
 - determined at time of launch wide application
 - no time limitation / cap on amount (restitution principle)
 - two liability regimes
 - absolute liability on Earth or aircraft in flight
 - fault liability everywhere else
- Registration
 - national register
 - United Nations register

Applicable Law for 'Aerospace' Activities?

- (Policy) Choices
- 'Unitary' approach based on intended destination / purpose / function?
 - one regime only
 - air law?
 - space law?
- 'Binary' approach based on location
 - air law AND space law?
- A new special (unified) regime?
 - 'aerospace law'?
- Other legal frameworks?