

# The Regulatory Void: Why Space Flight Suppliers Face Heightened Risks

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As the commercial space flight industry continues to expand, the nature of liability within this domain presents challenges that are distinctly different from those faced in more established industries. While certain principles, such as the need for robust contracts and clear indemnification clauses, are universal, the specific hazards, regulatory requirements, and the sheer novelty of space operations introduce a level of complexity that demands a closer examination.

## The Distinct Nature of Space Flight Liabilities

Space flight is not merely an extension of aviation; it is a radically different environment with its own set of risks and unknowns. Unlike traditional industries where the liabilities are well-defined and governed by decades of regulatory precedents, the space flight industry operates at the cutting edge of technology and human endeavor. This inherently experimental nature of space travel means that the risks are not only higher but also less predictable.

One of the most significant differences lies in the **absence of a mature regulatory framework**. Unlike the aviation industry, where safety standards and liability norms are well-established, the space flight industry is still developing its regulatory backbone. The FAA's regulations for commercial space flight, while comprehensive, are designed to evolve as the industry matures. This creates a fluid environment where liability standards can shift rapidly, depending on technological advancements and legislative changes.

## **Informed Consent and the Assumption of Risk**

One of the cornerstones of liability management in the space flight industry is the concept of informed consent. Space flight participants, unlike passengers on a commercial airline, must explicitly acknowledge the high-risk nature of their journey. This goes beyond the typical waivers found in other industries; participants must understand that they are embarking on a venture where the government itself has not certified the safety of the vehicles involved. This recognition of risk is not just a legal formality but a fundamental aspect of managing liability in space operations.

For third-party suppliers, this means that the traditional safeguards—such as product liability insurance—might not offer the same level of protection as they would in other industries. Suppliers must account for the fact that their components will be used in an environment where failure rates, even if minimal, can have catastrophic consequences. **The standard of care required** in the space industry is therefore significantly higher, and the consequences of a breach are more severe.

## **Regulatory Requirements and the Chain of Liability**

Another unique aspect of the space flight industry is the way regulatory requirements interact with the supply chain. In most industries, liability tends to be concentrated at the end of the supply chain—typically with the manufacturer or service provider directly interacting with consumers. However, in the space flight industry, the **regulatory obligations extend throughout the supply chain**. This means that even subcontractors and component suppliers can be directly impacted by regulatory actions.

For instance, FAA regulations may require that specific safety standards be met not just by the space flight operator but by all entities involved in the construction and operation of the

spacecraft. This creates a situation where third-party suppliers could be held liable for regulatory non-compliance, even if their products are only a small part of the overall system. The interconnectedness of space flight operations means that liability is often shared, and a failure in one component can lead to legal repercussions across the entire supply chain.

### **The International Dimension of Space Liability**

The space flight industry is inherently international, with operators, suppliers, and customers often spread across multiple jurisdictions. This global nature introduces additional layers of complexity to liability management. Different countries have varying regulatory standards, and there is no unified international framework for space flight liability akin to what exists in maritime or aviation law.

For third-party suppliers, this means navigating a patchwork of national regulations, each with its own approach to liability and indemnification. **Jurisdictional conflicts** can arise, particularly in cases where an incident leads to legal actions in multiple countries. Suppliers must therefore ensure that their contracts account for these international dimensions, incorporating choice of law and jurisdiction clauses that clearly define where and how disputes will be resolved.

### **Insurance and Risk Transfer in Space Operations**

Traditional insurance models also struggle to adapt to the unique risks of space flight. The high cost of space missions, combined with the potential for catastrophic losses, makes insuring these operations a challenge. While insurance products are available, they often come with high premiums and significant exclusions, particularly concerning third-party liabilities.

Suppliers must be aware that the **insurance coverage for space**

**flight operations** may not fully protect them from liability. This necessitates a more proactive approach to risk management, where suppliers not only rely on insurance but also on comprehensive contractual protections. This might include obtaining additional coverage, negotiating higher limits on existing policies, or requiring the space flight operator to bear a greater share of the risk.

### **Conclusion: A New Paradigm in Liability Management**

The space flight industry is pushing the boundaries of what is possible, but with this comes a need for a new approach to liability management. For third-party suppliers, the traditional models of risk transfer and liability protection may not be sufficient. Instead, they must engage with the unique challenges of space flight—ranging from the evolving regulatory landscape to the international nature of operations—and develop strategies that are as innovative and forward-thinking as the industry itself.

As space flight becomes more commonplace, the lessons learned today will shape the liability frameworks of tomorrow. Third-party suppliers have a critical role to play in this evolution, and by understanding and adapting to the unique liabilities of the space flight industry, they can help ensure not only their own protection but also the safety and success of future space missions.

**Author:** Mahmoud Abuwaseh

**Title:** Partner – Disputes

**Email:** mabuwaseh@waselandwaseh.com

**Profile:**

<https://waselandwaseh.com/about/mahmoud-abuwaseh/>

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[business@waselandwaseh.com](mailto:business@waselandwaseh.com)