



## AEROSPACE SERVICES

Solutions for Payload Providers  
and Manufacturers



Whether building an entirely new space launch complex, modifying an existing facility, or building satellites, GP Strategies® is your one source for aerospace solutions. Our approach to engineering design and fabrication emphasizes consistency, quality, efficiency, and safety.

Since the 1980s, GP Strategies' services for launch facilities, ground support equipment, and processing facilities have been instrumental in the advancement of space exploration and technology.

GP Strategies specializes in ground-based equipment and system design, analysis, planning, fabrication, testing, verification, validation support, and technical training for the aerospace industry. This experience specifically includes gas systems and equipment for the manufacture and fueling of satellites.

Satellite fueling and pressure system verification/testing of propulsion systems are complex and require the propellant to be transferred safely and quickly without compromising the purity or quality of the fuel or the spacecraft's onboard storage tanks.

GP Strategies' experience with both gas and liquid transfer systems spans more than 30 years. Our experience is focused on ensuring that our systems are safe, effective, and in no way compromise the quality, integrity, and purity of the propellant and the spacecraft.

GP Strategies' experience helps to support satellite providers streamline filling activities to effectively reduce schedule delays.

### Core Competencies and Services: GP3 PROPELLANTS/PRESSURANTS/ PROCESSES - *The art of moving molecules safely and efficiently*

- ✓ Designing and fabricating ion propulsion fill and transfer equipment
- ✓ Overseeing propellant & pressurant fill systems fabrication and construction
  - Hypergolic systems
  - Oxidizer systems
- ✓ Testing loaded propellant and fill system quality
- ✓ Developing automated pressure and leak testing equipment
- ✓ Providing filling procedures and technical training of staff
- ✓ Verifying and validating protocol development
- ✓ Conducting performance testing protocols
- ✓ Developing training models and conducting manufacturing activities (workforce development)





## Ground Support Equipment

Our clients have entrusted us with the design of many types of ground support systems. We have provided countless designs for equipment that interface with launch vehicles and critical flight hardware. We understand the equipment needs of high-tech aerospace production facilities, including:

- Specialized tooling and fixtures
- High-pressure gas systems and controls
- Xenon load and recovery systems
- Environmental control systems
- Assembly clean rooms
- Precision fabricated panels and components
- Cryogenic propellant supply and transfer systems
- Specialized engineering analysis capabilities, including static, dynamic, and random vibration stress analyses, and thermal, hazard and safety, and cost analyses
- Shop aids, satellite processing test fixtures, and adapters

## Our Global Customer Base

GP Strategies helps clients in highly specialized and technical environments optimize their processes, systems, and facilities. Our geographical footprint enables us to support your business on national, regional, and global bases.

## Our Accreditations

In addition to the awards we win, we also pursue accreditations that have meaning to our clients and prove the expertise and skill of our people. Our subject matter experts sit on numerous industry advisory and standards committees. Above all, we want to work with organizations that trust and feel comfortable and confident working with us.

API and ASNT QUALIFIED and  
CERTIFIED INSPECTORS

ASME U-STAMP

BS OHSAS 18001

CIBSE  
(LOW CARBON ASSESSOR)

ENERGY MANAGEMENT  
PROFESSIONAL

GENERAL CONTRACTOR  
LICENSES

ISO 9001

NATIONAL BOARD  
R-STAMP

SAFECONTRACTOR

SOC I  
(SSAE 16 TYPE II and ISAE 3402)

For more information on GP Strategies' aerospace services

1.888.843.4784

[info@gpstrategies.com](mailto:info@gpstrategies.com)

[www.gpstrategies.com/solutions-take-flight/](http://www.gpstrategies.com/solutions-take-flight/)



GP Strategies World Headquarters  
70 Corporate Center  
11000 Broken Land Parkway, Suite 200  
Columbia, MD 21044 USA



[gpstrategies.com](http://gpstrategies.com)  
1.888.843.4784  
[info@gpstrategies.com](mailto:info@gpstrategies.com)

