

# SNC<sup>®</sup>

## *Lighter-Than-Air High-Altitude Platform Station (LTA-HAPS)*



### ***ISR Operations at the Stratosphere***

SNC's Lighter-Than-Air High Altitude Platform Station (LTA-HAPS) capabilities provide global, persistent and uninterrupted ISR from the stratosphere with communication capabilities in near real-time. SNC brings 7+ years of direct untethered LTA-HAPS technology development and missions systems integration and 20+ years of unmanned system experience including developing and integrating mission systems, payloads, and command and control capabilities onto LTA-HAPS to meet warfighter mission needs.

# Lighter-Than-Air High-Altitude Platform Station (LTA-HAPS)

SNC is at the forefront of stratospheric technology development, leading the advanced navigable platforms in use today by SNC, the industry, and government customers. Pairing internal expertise with leading industry experts in these platforms maximizes the benefit to the customer. To evolve with Anti-Access/Area Denial (A2/AD) threats and respond to peer adversaries, SNC provides the LTA-HAPS Communications, Command, Control and Intelligence Network solution. SNC's LTA-HAPS solution supports uninterrupted ISR from the stratosphere through a navigable polyethylene and latex LTA-HAPS with greater altitude span for optimal path flexibility.

## PROVEN & UNIQUE OFFERINGS

- 85+ flights conducted using multiple balloon vendors
- More than 50kg lift capacity & ample power available day & night, with unconstrained payload operations & flight solutions
- Persistence: 60+ day missions at altitudes up to 75,000 feet
- Multi-Mission flexibility with reconfigurable, mission-tailored payloads
- Open architecture provides the ability to collect, analyze, identify & share data uninterrupted across all domains
- Enhanced Situational Awareness through various payloads, sensors, data links & communication networks
- Deployable payloads as well as safe recovery of all payloads to designated areas

## BENEFITS OF OUR SOLUTION



### Cost-Effective

Affordable, Lighter-Than-Air solutions



### Increased Coverage

High altitudes cover large terrain across wide areas



### Low-Visibility

Difficult to identify & target



### Durability

LTA-HAPS able to hold stations for long periods of time until needed

## SNC LTA-HAPS SOLUTIONS

SNC provides the LTA-HAPS Communications, Command, Control and Intelligence Network solution to evolve with A2/AD threats and respond to peer adversaries. SNC LTA-HAPS solutions consist of four primary elements:

### Lift Balloon

Lighter-than-air helium or hydrogen gas creates positive buoyancy to reach operating altitudes

### Ballast Balloon

Compressed air in the ballast balloon allows operators to adjust net buoyancy to maintain or decrease altitude

### Solar Arrays

Energy through lightweight solar power solutions, rotator orients solar arrays toward sun

### Gondola

Contains avionics, communications equipment, batteries, & mission payloads, can be installed internally or externally, retrievable, reusable, plug & play payload module



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