

## ► MIDLAND ALTITUDE CHAMBER COMPLEX

The Midland Altitude Chamber Complex (MACC) is a world-class high-altitude test facility located at the Midland International Air & Space Port in Midland, Texas. The complex features three hypobaric chambers for testing equipment and training personnel in normal and emergency flight conditions.

### FACILITY

- Large control room with visitor viewing area
- Flexible training and data review area
- Chambers with large clear acrylic areas allow full visibility of all chamber occupants
- All chambers are reconfigurable to accommodate various test parameters and goals

### EQUIPMENT CHAMBER(s)

- Internal Volume: 11.78-cubic-feet
- Allows altitude variations up to 100,000-feet
- Maintains altitudes indefinitely
- Controlled manually or autonomously via laptop

### SUIT CHAMBER

- Capacity: 2 persons in pressure suits
- Supports defined flight profiles to altitude of 100,000-feet and rapid decompression to 60,000-feet
- Reconfigurable interfaces to accommodate various pressure suit and chamber configurations

### CABIN CHAMBER

- Capacity: up to 10 persons in pressure suits
- Supports defined flight profiles to altitude of 100,000-feet and rapid decompression to 60,000-feet
- Reconfigurable interfaces to accommodate various pressure suit and chamber configurations

### VACUUM SYSTEM

- Two tanks totaling 8,450-cubic-feet
- Large vacuum pump for evacuating tanks
- Small vacuum pump for fine altitude control
- Pressure suit and chamber configurations



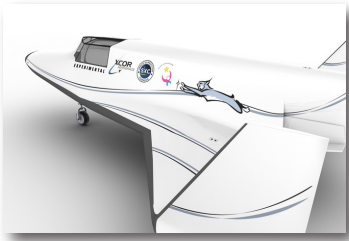
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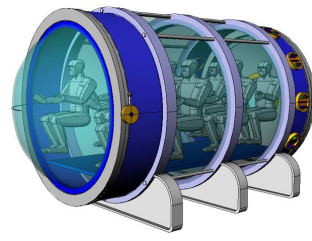


## ▶ GROWING AEROSPACE CLUSTER

- New home to innovative space companies: XCOR Aerospace (2014) and Orbital Outfitters (2015)
- Strong labor market - engineers/technical workers with transferable skills
- Wealth of local industrial suppliers
- Aerospace systems test capability developing in the area
- Higher education support for aerospace industry



XCOR Lynx  
Suborbital Spacecraft



Midland Altitude Chamber  
Complex (MACC)

## ▶ AIRPORT FACILITIES

- FAA Approved Commercial Space Flight Launch License (Spaceport), certified under the Federal Aviation Regulation (FAR) Part 420
- MAF is classified by the FAA as a commercial primary small-hub airport and is certified under Federal Aviation Regulation (FAR) Part 139
- Access via major scheduled airlines - 20+ flights/day
- Runway 16R/35L is capable of wide body takeoffs and landings, spans 9500 x 150 feet
- Non-congested airspace and modern, spacious terminal with no flight/noise restrictions or imposed curfews
- Progressive management approach to maintaining and improving infrastructure
- Close proximity to metropolitan area with a wide variety of quality lodging, restaurants and entertainment

## ▶ SPACEPORT BUSINESS PARK

- First commercial spaceport co-located with a major commercial airport (space available for HTHL and testing)
- 50-acres available for ground leases for aerospace/aviation development adjacent to air carrier strength concrete ramp
- Open areas for flight and energetic testing
- Growing aerospace cluster with innovative space companies
- Favorable regulatory environment for development companies
- Active business support and economic incentives available through the MDC



## BUSINESS & ECONOMIC SUPPORT

The Midland Development Corporation:

- Dynamic economic incentive/development authority
- Actively promotes business expansion in Midland with aerospace being a targeted industry for economic development
- Builds strong and diversified economy through job creation and capital investment
- Ability to structure incentive packages to new and existing diversified employers who create/retain jobs
- Actively supports new aerospace companies to help them make connections, grow, and prosper
- Helps secure state level economic incentives/support

## RESEARCH & DEVELOPMENT

- Established Sub-Orbital Launch and Landing Corridors
- Excellent climate for year-round outdoor ground and flight-based test work (mild winter temperatures, low humidity, low precipitation)
  - Average of 315 VFR flying days/year
- Favorable regulatory environment
  - State legislation limiting liability of space flight operators including subcontractors
  - Reasonable environmental regulation with accessible, centralized management

## COMMUNITY

- Vibrant and growing community of 155,000+
- Strong labor market of engineers and technical workers
- Sixth Best City for Jobs in 2014 (Forbes Magazine, 2014)
- Best “Smaller Metro Area” for Jobs (Forbes Magazine, 2013)
- Fastest growing metropolitan area (U.S. Census Bureau 2011-12)
- High-quality medical care
- High-quality secondary education system
- Friendly, welcoming, honest people