Huntington Beach Site Overview

Paul Geery
Vice President, C3 Solutions
Boeing Network & Space Systems
Business Areas

Space
- Electronics & Information
- Missile Defense
- C-17 GISP

Phantom Works

Innovation Centers

Engineering

Manufacturing

Strategic Capabilities

BR&T

BT&E
50 Years of Innovating for the Nation

1966
First Saturn S-IVB shipped to Cape Canaveral

1967
McDonnell Aircraft merges with Douglas Aircraft

1972
Apollo 17 shoots into space in the closing act of Project Apollo

1973
Saturn V used for last time to launch Skylab

1981
Maiden flight of Space Shuttle

1989
Successful maiden launch of the Delta II

1991
Begin building Delta Clipper Experimental

1996
Begin design and build of GPS-IIF

1996
McDonnell Douglas merges with Boeing

1997
Rockwell Aerospace merges with Boeing

1999
Start of X-37 development

2002
Maiden launch of Delta IV

2004
Maiden launch Delta IV Heavy

2006
United Launch Alliance (ULA) Day 1

2011
C-17 GISP moves to HB

2014
XS-1 Experimental Space Plane Design Study Begins

Nov. 14, 1963
VP Lyndon Johnson dedicates the Space Systems Center which opens with 2,600 employees

Mid-1970’s
Steady production of Delta rockets

Mid-1990s
Begin building segments of the Int’l Space Station

1999
First demo launch of Sea Launch

2003
Boeing FCS work begins

2011
Advanced Unmanned Underwater Vehicle Development

2013
X-51A WaveRider achieved the longest air-breathing, scramjet-powered hypersonic flight in history
Programs and Capabilities

Engineering
- Agile Engineering
- Logistics
- CFO Analysis
- Materials & Processes

Testing
- Large Structures
- Dynamics
- Optics

Manufacturing
- Large Structures
- Thermal Protection Systems
- Composites
Site People Engagement

Large Site BOTM Winner

Innovation Cell

Dennis Muilenburg Ride

Coffee Café

HB 4th of July Parade

Tuskegee Airmen

Veteran’s Day

Recreation Center
### Site Innovation

#### Innovation Cell

- Agile Development
  - Lean & Software Development
  - Integrated Engineering & IT Capabilities
  - Knowledge Management
  - Environment and Culture

- Knowledge Management

- Rapid Prototyping

- Virtual Ops Design

- Additive Manufacturing

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**Phantom Eye**
- Persistent intelligence, surveillance and reconnaissance; border monitoring; port security and telecommunications
- Unique liquid-hydrogen propulsion system, lightweight structures
- Up to 4 days endurance at altitudes of up to 65,000 feet
- Up to 450 lb. multi-sensor payload

**Phantom Phoenix**
- Quickly, affordably built for multiple missions
- Shares common architecture, flight software, simplified payload integration
- 3 configurations:
  - Phoenix – 500 to 1,000 kg mid-class
  - Phoenix ESPA – 180 kg ESPA-class
  - Phoenix Nano – 4 to 10 kg nanosatellite
- Designed for launch on all major vehicles
Site Corporate Citizenship

Boeing Environmental Award

Water Treatment Center Rebate

Underserved Schools

Vehicle Charging Stations

Discovery Science Center