

SPACEX

A detailed rendering of a SpaceX Dragon capsule in orbit above Earth. The capsule is white with a black heat shield on the side. It features the American flag, the SpaceX logo, and the Dragon logo. The background shows the Earth's horizon and a bright sun in the upper right corner.

ISPCS

SpaceX Commercial Crew Summary

10/8/2015 | Garrett Reisman

SpaceX Commercial Crew Program Overview

- SpaceX is developing a complete, safe, and reliable Crew Transportation System:
 - Crew Dragon vehicle
 - Falcon 9 launch vehicle
 - Ground launch system
 - All Operations: Crew, Launch, Mission, Ground, and Recovery
- System highlights:
 - Carries up to 7 crew members, or 4-5 crew members plus cargo bags and powered lockers
 - Dragon has a state-of-the-art integrated abort system
 - SpaceX crew missions will launch from the fully upgraded historic Pad 39A
 - Dragon designed for propulsive landing and rapid reusability
 - Primary certification for parachute-to-water landing and new Dragons each mission
 - Capable of 210-day stay on ISS
- Flights:
 - Demo-1 to ISS, without crew
 - In-Flight Abort Test
 - Demo-2 to ISS, with crew
 - Up to 6 Post Certification Missions (PCMs)



Pad Abort Test Dragon



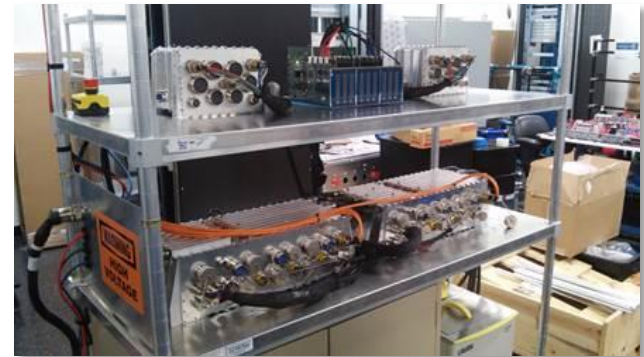
LC-39A with Renovations in Progress

On schedule to restore U.S. crew carrying capability by 2017

Milestone Status

- Recent completions:
 - Certification Baseline Review (Dec 2014)
 - Pad Abort Test (May 2015)
 - Avionics Test Bed Activation (June 2015)
- Major 2015 milestones:
 - Critical Design Review
 - Docking system qualification
 - Launch Site Operational Readiness, LSORR
 - Initial Propulsion Module Testing
 - Propulsive Land Landing Testing
- Major 2016 milestones:
 - LSORR for Crew
 - ECLSS Integrated Test
 - Validation Propulsion Module Testing
 - Space Suit Qualification
 - **Demo 1 autonomous flight to ISS**
- Major 2017 milestones:
 - Parachute Qualification Complete
 - Design Certification Review
 - Certification Review
 - **In-Flight Abort Test**
 - **Demo 2 flight to ISS with crew**

Avionics Test Bed



Initial Propulsion Module Hot-Fire



Hangar and Launch Pad at LC-39A



Crew Dragon On Orbit