

SNC[®]



Dream Chaser Status

John Roth

VP Strategy & Business Development

Dream Chaser Flight Test Vehicle at Space Symposium

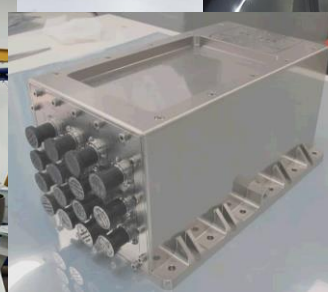
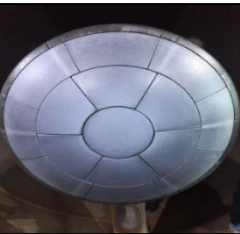


Interesting Visitors to our Display



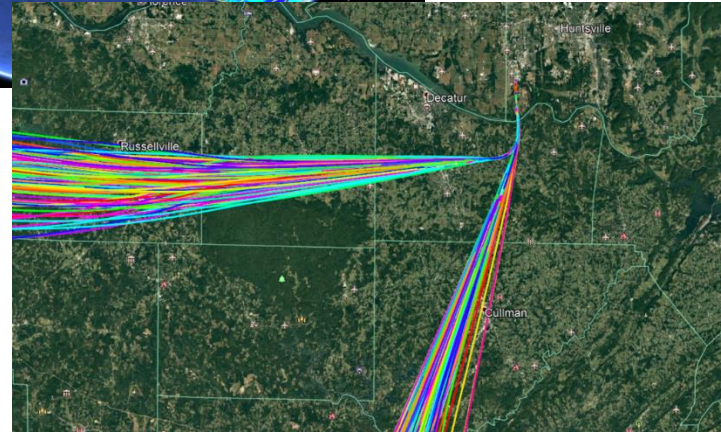
Dream Chaser Orbital Vehicle Status

- Completed CDR with NASA in May 2018
- Executing Orbital Vehicle production
 - ULA Atlas V Dream Chaser White Room Installed
 - Initial TPS Tiles Delivered
 - Aeroshells arrived in June
 - Dream Chaser Cabin Arrives end of 2018
 - Fault Tolerant Flight Computers (FTFCs) EDUs delivered
 - Cargo Module Manufacturing Development Unit (MDU)
- SNC-1 Launch Q4 2020



Landing Site License Status

- **SNC has delivered all milestones of Phase 2a**
 - Completed the following:
 - Runway Compatibility
 - Trajectory Development
 - Inputs to Sonic Boom Analysis
 - Reentry Risk Analysis
- **Supporting RS&H in developing the Environmental Assessment and Reentry Site Operators License**
- **Next Step - Begin Phase 2b**
 - Develop trajectories of an additional orbit
 - Conduct final reentry risk assessment
 - Establish letters of agreement required for licensing
 - Compile and submit an FAA license application for Dream Chaser to land



First Commercial Mission Opportunity

United Nations Dream Chaser Mission

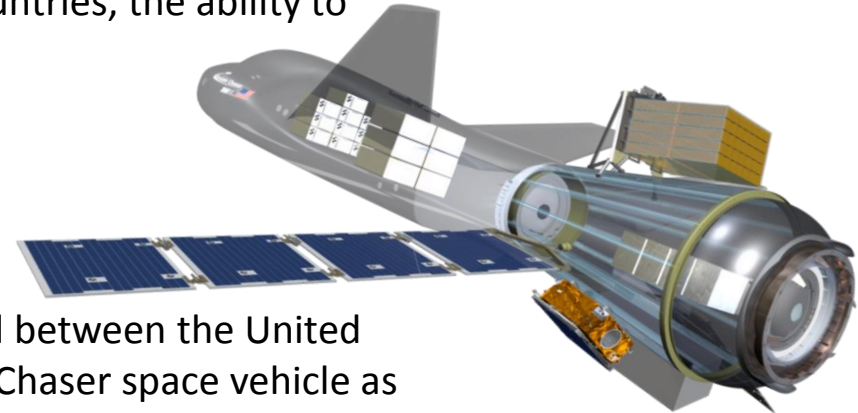
UNOOSA Human Space Technology Initiative (HSTI) is based on three pillars:

- promote international cooperation
- conduct outreach activities
- support capacity building efforts worldwide

The UN/Dream Chaser mission is the most ambitious program under HSTI. It will be the first United Nations sponsored, multi-country space mission. It will provide member countries, especially developing countries, the ability to build and fly payloads for:

- microgravity science
- remote earth sensing
- hardware qualification
- assets deployment

A Memorandum of Understanding has been executed between the United Nations and SNC in June 2016 to utilize SNC's Dream Chaser space vehicle as the host for UNOOSA member country's payloads



UN Mission Call for Interest

- **Purpose**

- To determine interest level from member countries to have a free flight mission
- Get a preliminary understanding of the types of payload accommodations of interest
 - Internal, external, satellite deployment

- **Results**

- Exceeded our expectations
- 150 Responses from 75 countries
- Variety of payload types
- All SDGs addressed by the proposed payloads

**Orbital Space Mission
UNOOSA Call for Interest**

APPLICATIONS FROM: 25 SEPTEMBER - 15 NOVEMBER 2017

Important Links:
[Call for Interest and Response Form ▶](#)

The United Nations Office for Outer Space Affairs (UNOOSA) is partnering with the Sierra Nevada Corporation (SNC) to offer United Nations Member States the opportunity to participate in an orbital space mission utilizing SNC's Dream Chaser® space vehicle. The mission will be open to all Member States of the United Nations, and developing countries are particularly encouraged to participate. The mission will carry experiments, payloads, or satellites provided by institutions in the participating countries.

The purpose of this [Call for Interest \(CFI\)](#) is to provide a summary of the proposed mission and to solicit information from Member States interested in providing experiments, payloads, or satellites that could be flown on this mission. The CFI also has the objective of gathering information on the interested countries so that UNOOSA may better understand the demand for this type of mission.

This mission will be the first space mission devoted to addressing the Sustainable Development Goals.



The UN Dream Chaser Mission Timeline

- ✓ Sep 2017: Issue Call for Interest (CFI to UN Member Countries)
- ✓ Nov 2017: CFI responses due
- ✓ Jan 2018: Bidder's briefing at UN in Vienna
- Plan for 2018:
 - Release of CFI for Hosting Mission Landing
 - Release of Announcement of Opportunity (AO)
- Plan for 2019:
 - AO Responses
 - Payloads selection
 - Select Landing Site
- Plan for 2022:
 - Mission Execution



Ready?

