

VIRGINIA
SPACE



Senate Finance Committee

January 29, 2014

Dale Nash

Executive Director

Virginia Commercial Space Flight Authority

A Brief History of 'Virginia Space'

1995 – VCSFA created by Virginia

1997 – NASA Space Act Agreement

1997 – FAA launch license for orbit

1997 – Spaceport established

2006 – Launched TacSat-2, Pad 0B

2007 – Launched NFIRE, Pad 0B

2009 – Launched TacSat-3, Pad 0B

2011 – Launched ORS-1, Pad 0B



MARS Pad 0A Turnover October 1, 2012



Antares Hot Fire Test

February 22, 2013



Antares Test Flight Launched to Orbit

April 21, 2013



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LADEE Launched to the Moon

September 6, 2013



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Antares COTS Demo Flight Launched to ISS

September 18, 2013



ORS-3 Launched to Orbit

November 19, 2013



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Orb-1 Launch To ISS January 9, 2014



Other Opportunities





U.S. Spaceports

- ***There are multiple spaceports in the U.S. licensed by the FAA Office of Commercial Space Transportation***
- ***Only 4 locations are licensed to launch to orbit: Virginia, Alaska, Florida, and Vandenberg, CA***
- ***Similar to Florida (LC46) and CA (SSI) in being collocated within a Federal Launch Range***
- ***Virginia Space (MARS) is similar to Alaska (KLC) in active operations and maintenance***

Alaska Aerospace Partnership

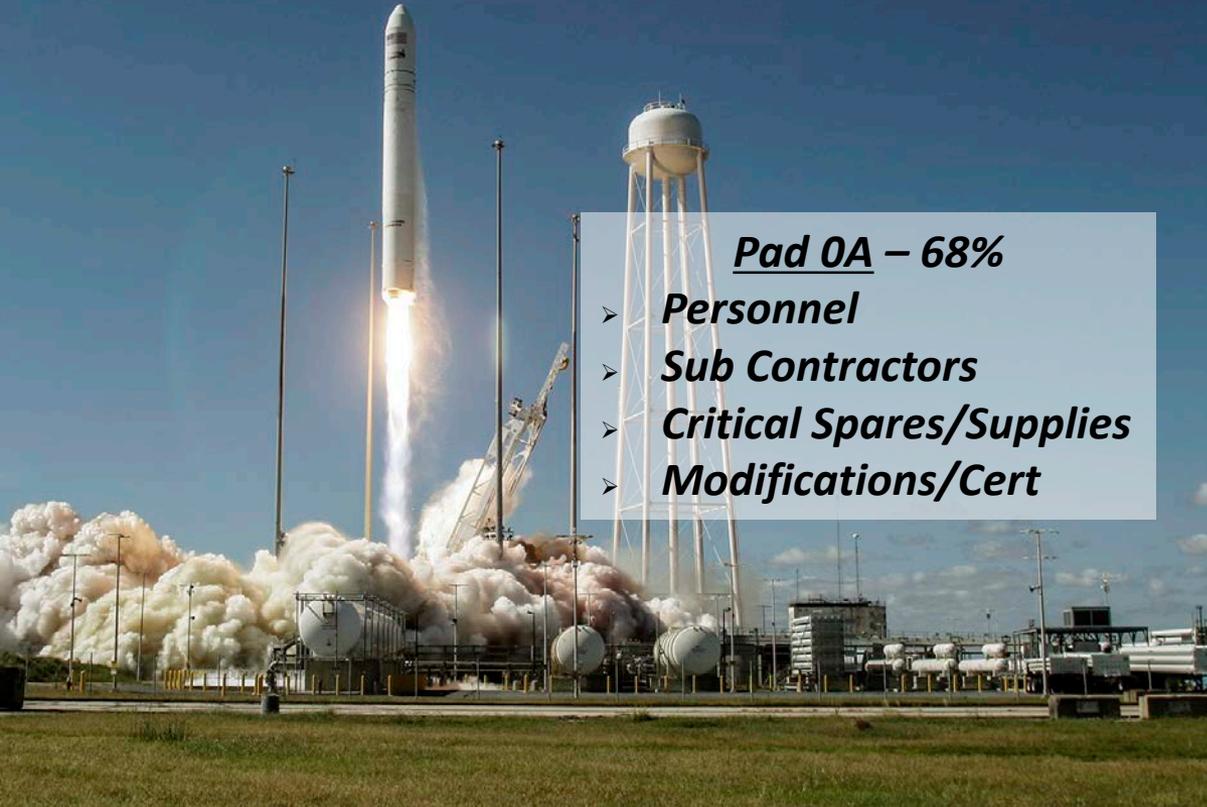


Applied STEM Education

Wise County-Norton students launch experiment to Space Station

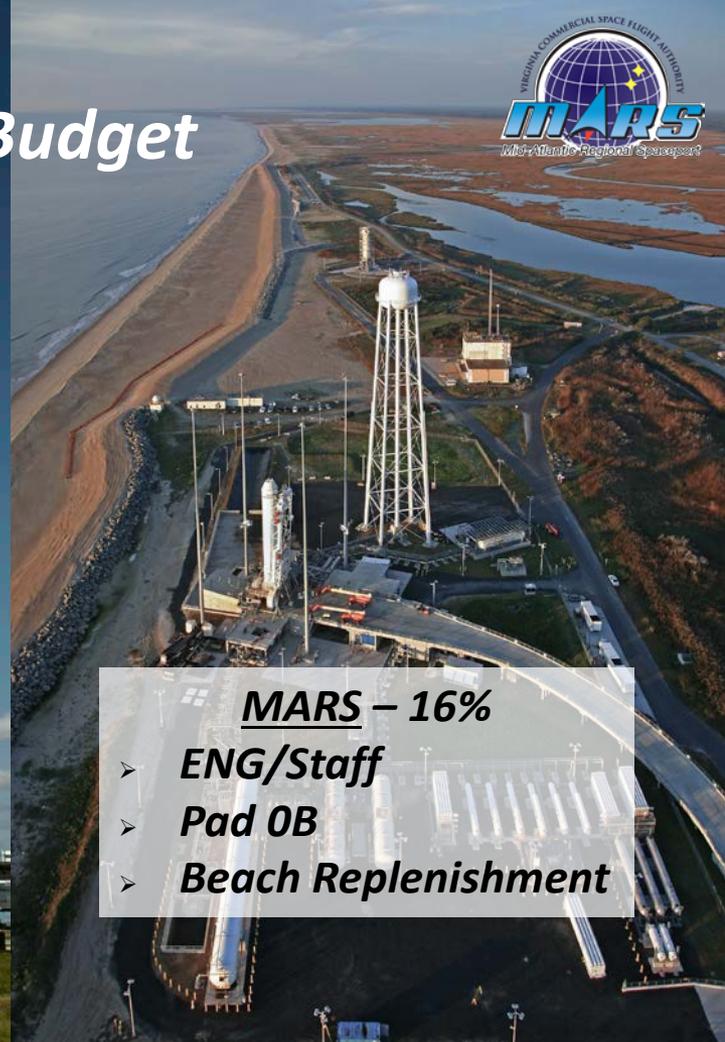


VCSFA Operating Budget



Pad 0A – 68%

- Personnel
- Sub Contractors
- Critical Spares/Supplies
- Modifications/Cert



MARS – 16%

- ENG/Staff
- Pad 0B
- Beach Replenishment



VCSFA HQ – 16%

- Admin/Staff
- Prof Services/IT
- Offices/Rent
- Business Dev

Summary

Pad 0A	\$12.84M
MARS	\$3.03M
VCSFA HQ	\$2.93M
Total Op Budget	\$18.8M
Requested Funding	\$15.8M

International
Space Station
↩ ON-RAMP

Moon
Ahead
↑

