Stoke Space Briefing

Senate Committee on Business, Financial Services & Trade

December 2025

Presentation Overview

Main takeaways:

- Stoke is building and testing a fully reusable rocket, right here in Washington.
- WA lawmakers can support Stoke and the wider WA space economy through expanding incentives and strategic grantmaking.
- Open invitation to HQ: come visit us!

1. Nova Overview: What are we building?
2. Stoke Space Facilities: Where are we building it?
3. Economic Development: How are we investing in WA?
4. Recommendations: Why are we asking for your support?

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NOVA

Built for mobility. Designed for 100% Rapid Reuse.

NOVA

Optimized for market entry & re-entry demonstration missions.

REUSABLE FIRST STAGE

Full Flow Staged Combustion (FFSC) first stage engine provides highest in class efficiency.

REUSABLE SECOND STAGE

Integrated, regeneratively cooled re-entry heat shield allows for minimal refurbishment between flights, unlocking rapid turnaround.

TEST MILESTONES COMPLETE

- ✓ Vertical Hotfire for S1 (test like you fly) **(Dec 2024)**
- ✓ **100% Power Level for S1 and S2 (April 2025)**
- ✓ **Mission Duty Cycle for S1 (June 2025)**
- ✓ **488-second hotfire for S2 (August 2025)**
- ✓ **Stage 2 Structural Qualification (August 2025)**



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NATIONAL SECURITY SPACE LAUNCH (NSSL)

Stoke awarded Phase 3 Lane 1 contract, joining exclusive group of national security launch providers.

MASSIVE VOTE OF CONFIDENCE

Secures seat at an exclusive table to launch critical national security payloads. Stoke was chosen for a reason.

TRUSTED BY SPACE FORCE

On-ramp is testament to Space Force's conviction in Stoke's architecture, team, and mission readiness.

FASTEST TO AWARD

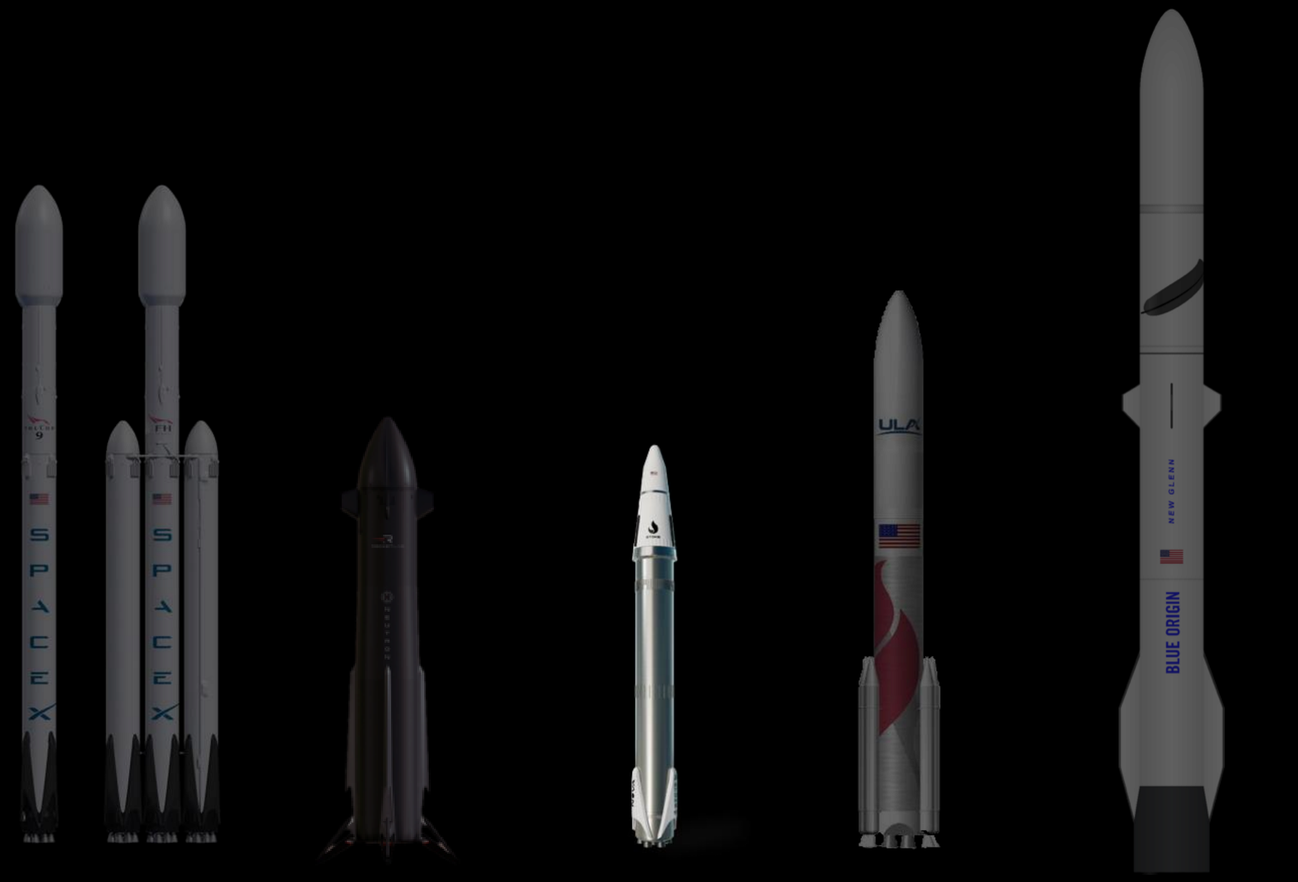
Stoke is the youngest company by far selected for NSSL – a direct result of rapid execution.

BUILT FOR THE MISSION

Nova's full and rapid reusability directly addresses needs for high-cadence, flexible, and resilient launch.

COMMERCIAL IMPLICATIONS

Selection by the U.S. government to launch national security payloads affirms Stoke's reliability for commercial missions.



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Kent, WA Manufacturing Site (HQ2)

MADE IN AMERICA. BUILT IN WASHINGTON

170,000 square foot integrated design and manufacturing facility in Kent, Washington

ADVANCED MANUFACTURING

Additive manufacturing and advanced welding capability for end-to-end ownership.

VERTICALLY INTEGRATED

Proximity of in-house manufacturing and design engineering allows for rapid iteration to move faster.

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MOSES LAKE, WA TEST SITE (MLTS)

Rapid test cycles at MLTS accelerate development and de-risk operations



PRIVATE & PROXIMAL

75-acre, vertically integrated test site near engineering HQ allows for rapid iteration and direct hardware flow.

FULL-SPECTRUM TESTING

Supports component, engine, structural, and stage testing – often in parallel – to maximize throughput.

RAPID TURNAROUND

Numerous full engine hotfires per shift

UNPRECEDENTED SPEED

MLTS is a key differentiator from competitors, enabling unprecedented speed of execution.

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LAUNCH COMPLEX 14 (LC-14)

Dedicated-use launch & landing site at Cape Canaveral Space Force Station (CCSFS)

ENSURING STRATEGIC ACCESS

1 of only 5 companies with a dedicated-use pad at CCSFS or KSC.

TRUSTED BY USSF

Fastest company ever to win dedicated-use pad, earned via credibility and mission alignment.

CONSTRUCTION UNDERWAY

Environmental Assessment (EA) completed in October 2024; construction began immediately.

OPERATIONAL IN 2026

Infrastructure buildout ahead of schedule to support initial operations.



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Economic Development

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Investing in WA

WA State Vendors					
	2021	**2022**	**2023**	**2024**	**2025**
Number	45	86	109	94	106
Payment	$0.7M	$4.0M	$11.7M	$10.7M	$13.6M

Vendor Highlight: NORCO

Stoke requires significant amounts of oxygen to conduct tests in Moses Lake. We partner with NORCO, a major supplier of oxygen to rural farms and hospitals in Grant County, to maintain a steady flow of O2 to our test facility.

Workforce Development Highlight

Our Entry-Level Aerospace Technician (ELAT) program gives local high-school and GED graduates an on-ramp into Washington's robust and growing aerospace workforce.

The program is highly competitive, with over 900 total applicants.



ELAT Stats

- **Program Length:**
  9 months
- **Participant Status:**
  Paid, short-term employee
- **Location:**
  Kent
- **Structure:**
  Participants match with full-time mentors
- **Areas of study:**
  Turbomachinery, inventory, logistics, structures, additive manufacturing, etc.



ELAT Opportunity

- **Technical training for Washingtonians without a Bachelor’s degree**
- **Expands access to growing aerospace industry**
- **Creates pipeline of skilled workers**
- **Mutually beneficial for local communities and Stoke by providing access to valuable training and ensuring a highly-skilled local workforce**



Past Participants

Source Schools / Organizations

- Lakes High School
- Green River College
- Western Washington University
- Emerald Ridge High School
- Bellevue College
- Whatcom Community College
- Roosevelt High School
- Central Washington University
- Pierce County Skills Center



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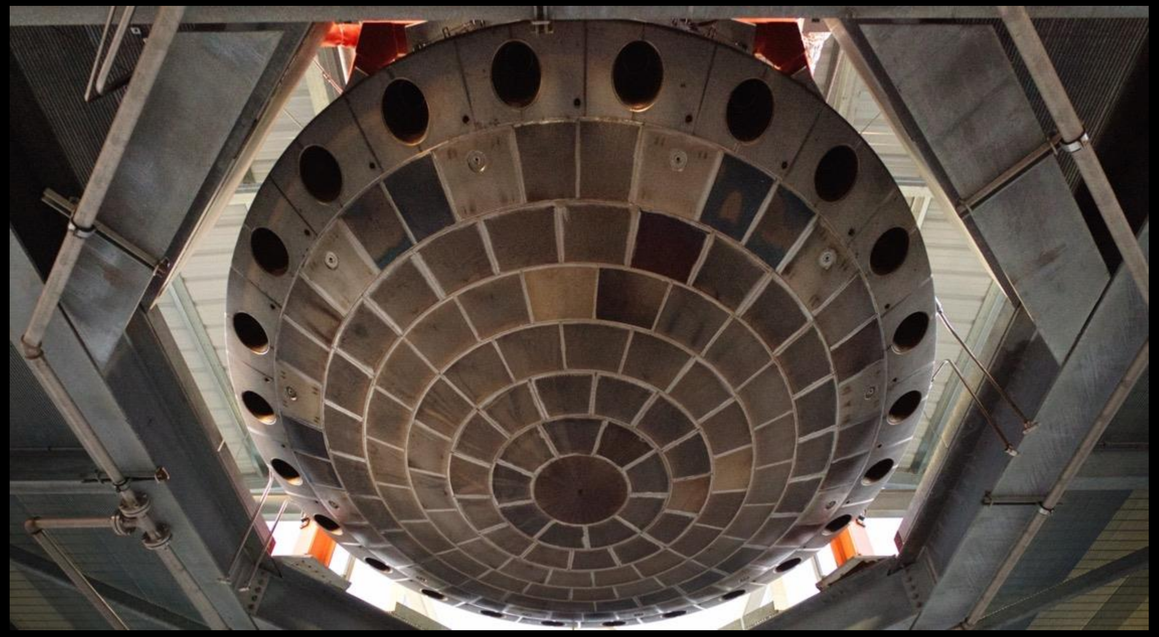
Recommendations for Lawmakers

1. **Expand which "aerospace products"** are eligible for existing tax incentives (R&D, manufacturing, property, rural workforce)
2. Mirror other space leader states by **establishing an in-government Washington Space Fund**, likely within Department of Commerce, for strategic grantmaking

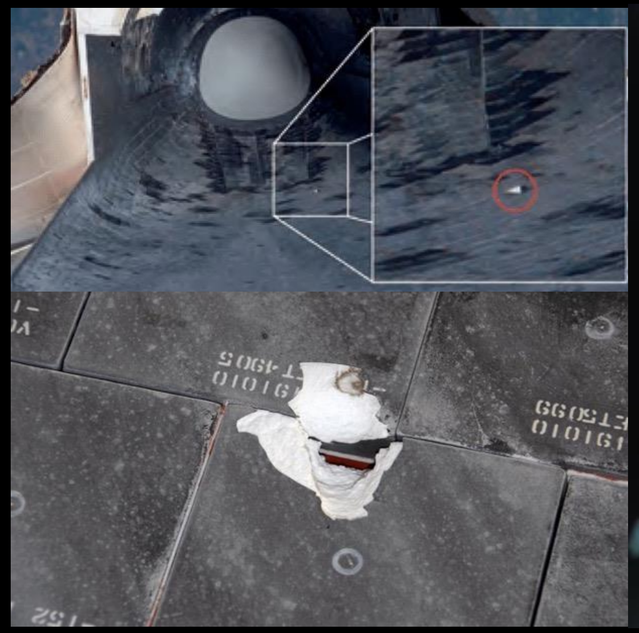

STOKE

FULLY REUSABLE. FROM THE GROUND UP.

STOKE
COOLED METALLIC HEAT SHIELD



TRADITIONAL
CERAMIC TILES





Conventional materials	Expensive
Ductile materials	Brittle materials
Minimal maintenance	Constant maintenance
Passive failure modes	Catastrophic failure modes

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