



# Next Generation Launch System

A Low Risk, Low Cost Launch System

## FACT SHEET



### Overview

Orbital ATK is fully committed to developing a new lineup of intermediate-and large-class space launch vehicles capable of launching national security, science and commercial payloads. The U.S government already relies on Orbital ATK for its most critical national security launch programs, and this new launch system expands the range of Orbital ATK's current, flight-proven space launch vehicles—from small-class Pegasus and Minotaur to medium-class Antares rockets—by adding the capability to launch intermediate and heavy payloads.

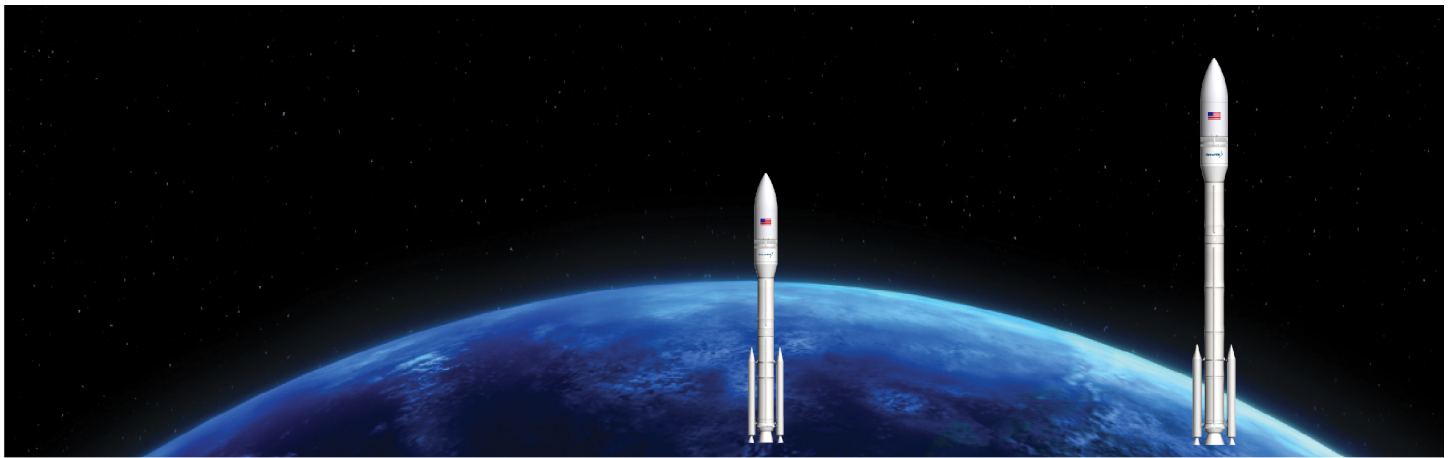
NGL's design draws upon flight-proven technologies used on other Orbital ATK rockets. Common subsystems enable synergies that reduce technical risk and provide \$600M in cost savings over ten years to government agencies.

Together, Orbital ATK and the Air Force invested more than \$200M in the new launch system between 2015 and 2017, and Orbital ATK is committed to contributing hundreds of millions more to support NGL development. The NGL team has built hardware and conducted structural acceptance tests. The first certification test flight is on track for 2021.

### FACTS AT A GLANCE

- 200 employees currently work on the NGL Program, with 600 more projected by 2020
- Payload capacity of:
  - 4,900 – 10,100 kg to Geosynchronous Transfer Orbit (GTO)
  - 5,250 – 7,800 kg to Geostationary Equatorial Orbit (GEO)
- Capable of launching from both east and west coast ranges
- Commonality among Orbital ATK rockets results in lower technical risk and cost savings for customers
- NGL uses flight-proven technologies based on Orbital ATK's 100+ successful space launch missions
- 100% of the vehicle is at Technology Readiness Level (TRL)-6 or higher

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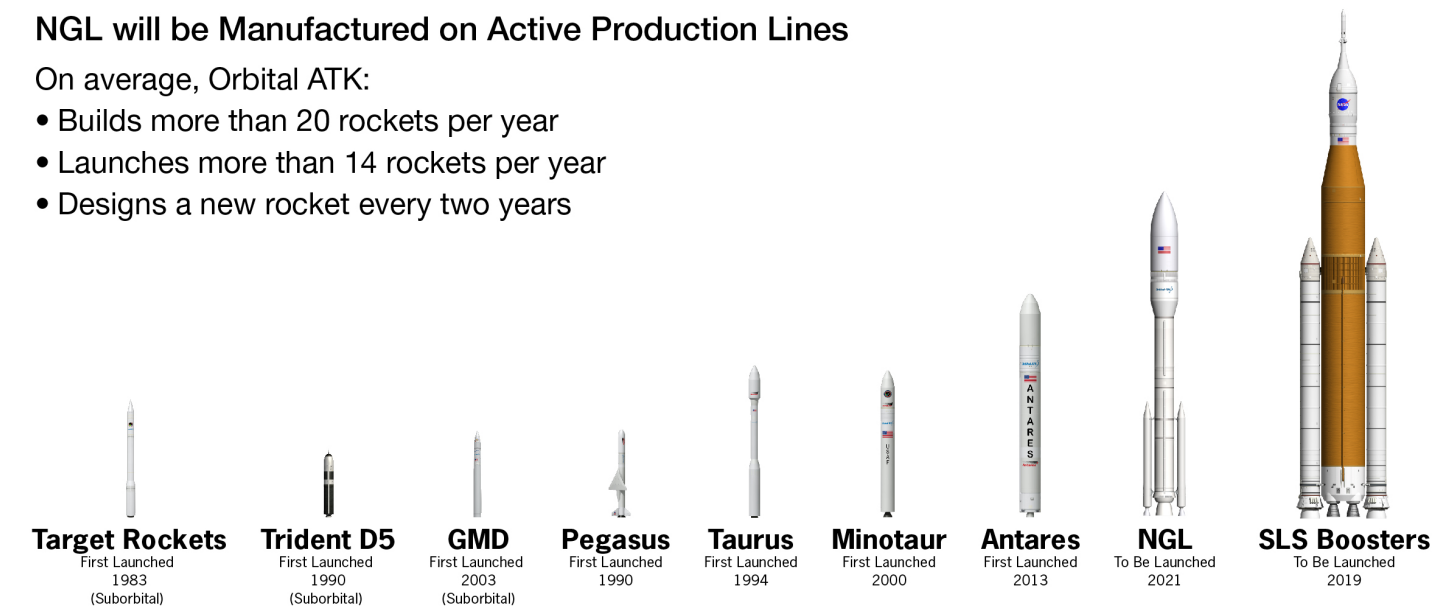


Vehicle Configuration	Intermediate Configuration	Heavy Configuration
Payload Fairing	5 x 15m	5 x 15m or 5 x 20m
Payload Capacity	4,900 - 10,100 kg (GTO)	5,250 - 7,800 kg (GEO)
Stage 3	Cryogenic	Cryogenic
Stage 2	CASTOR® 300	CASTOR® 300
Stage 1	CASTOR 600	CASTOR 1200

## NGL will be Manufactured on Active Production Lines

On average, Orbital ATK:

- Builds more than 20 rockets per year
- Launches more than 14 rockets per year
- Designs a new rocket every two years



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