National Aeronautics and Space Administration

NASA

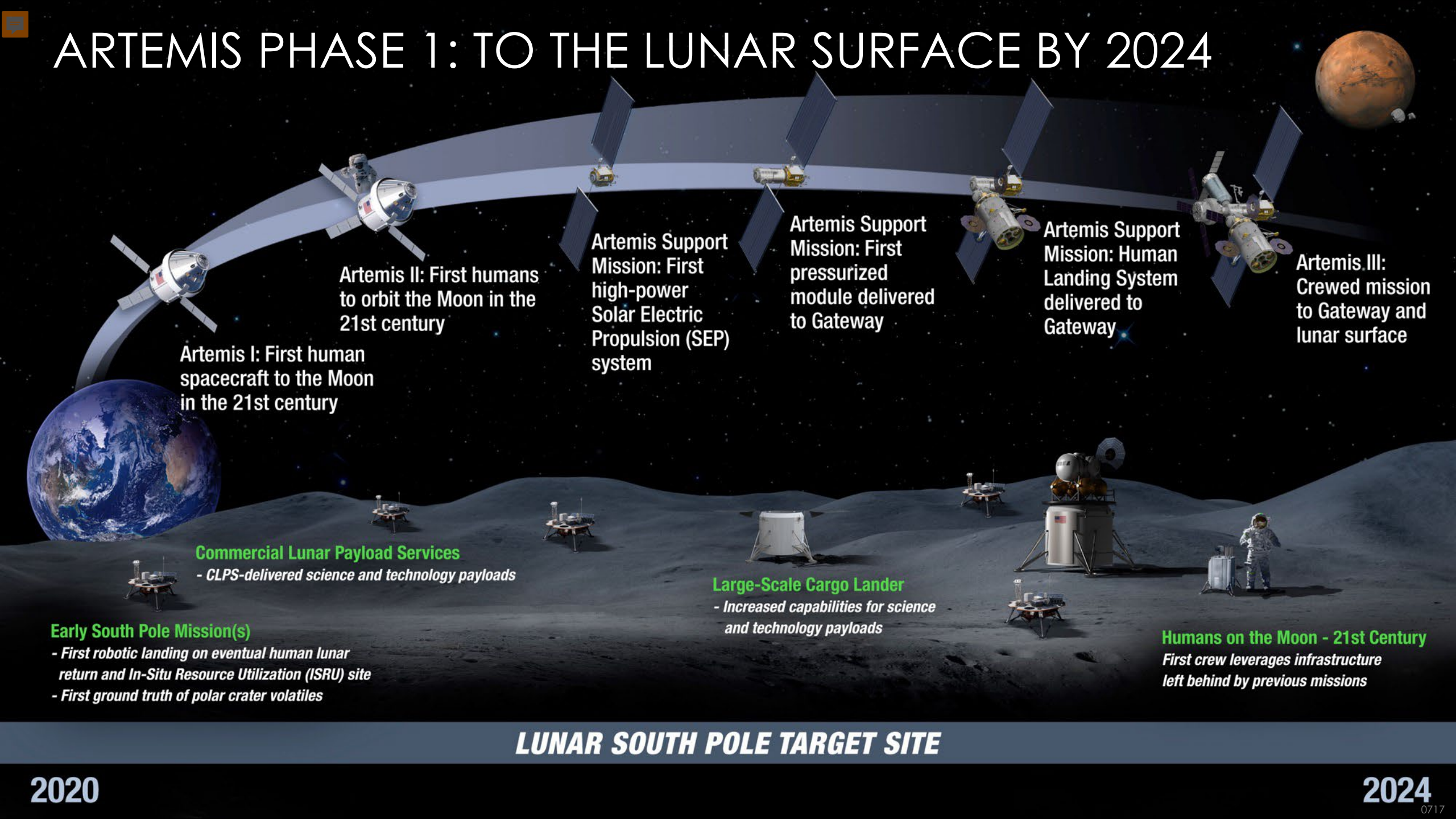
SPACE LAUNCH SYSTEM UPDATE

Association of Chamber of Commerce Executives

Sharon Cobb
Acting Deputy Program Manager
Space Launch System Program


ARTEMIS

ARTEMIS PHASE 1: TO THE LUNAR SURFACE BY 2024



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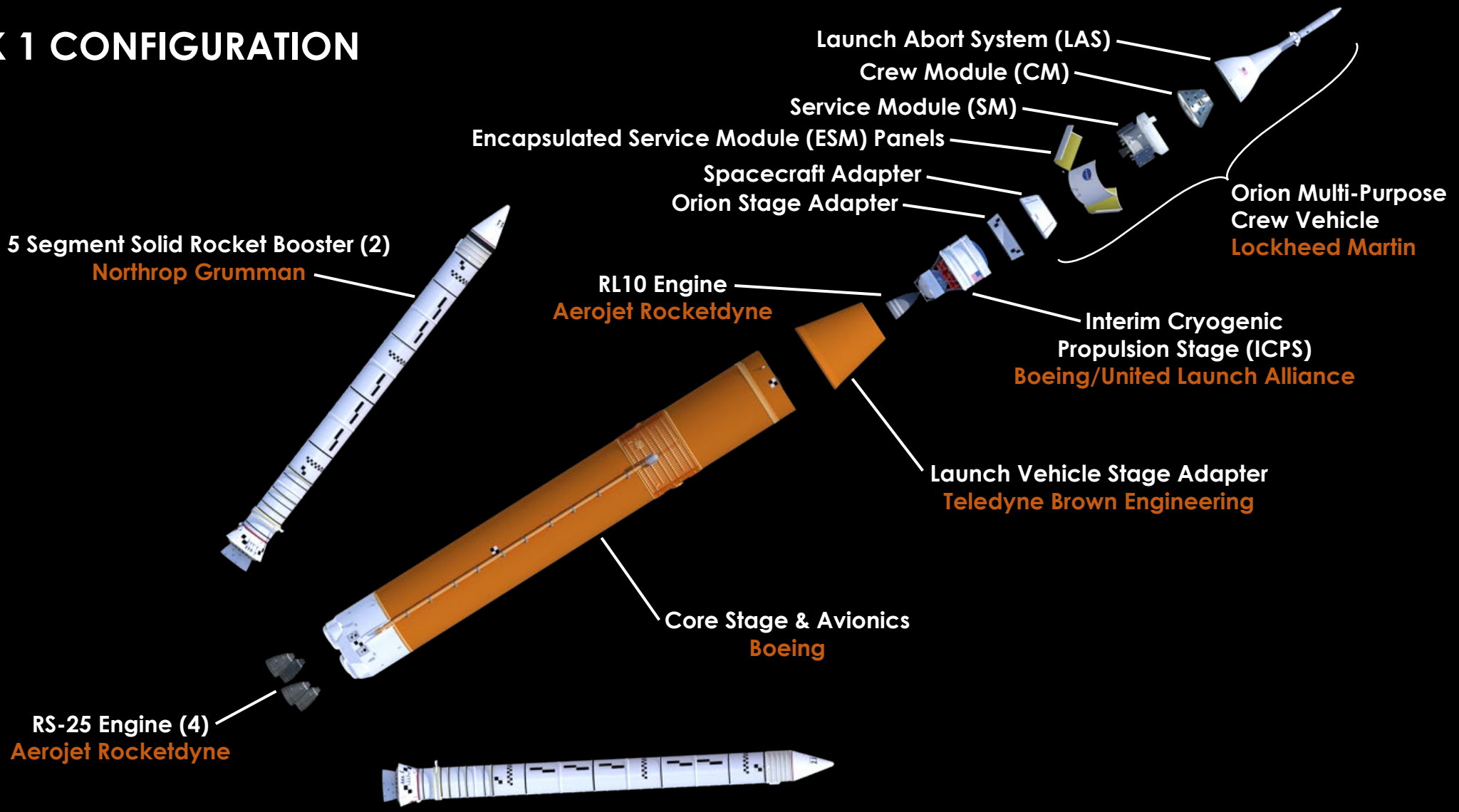
NASA'S SPACE LAUNCH SYSTEM

BACKBONE OF DEEP SPACE EXPLORATION

BLOCK 1 CONFIGURATION



SLS NATIONWIDE TEAM

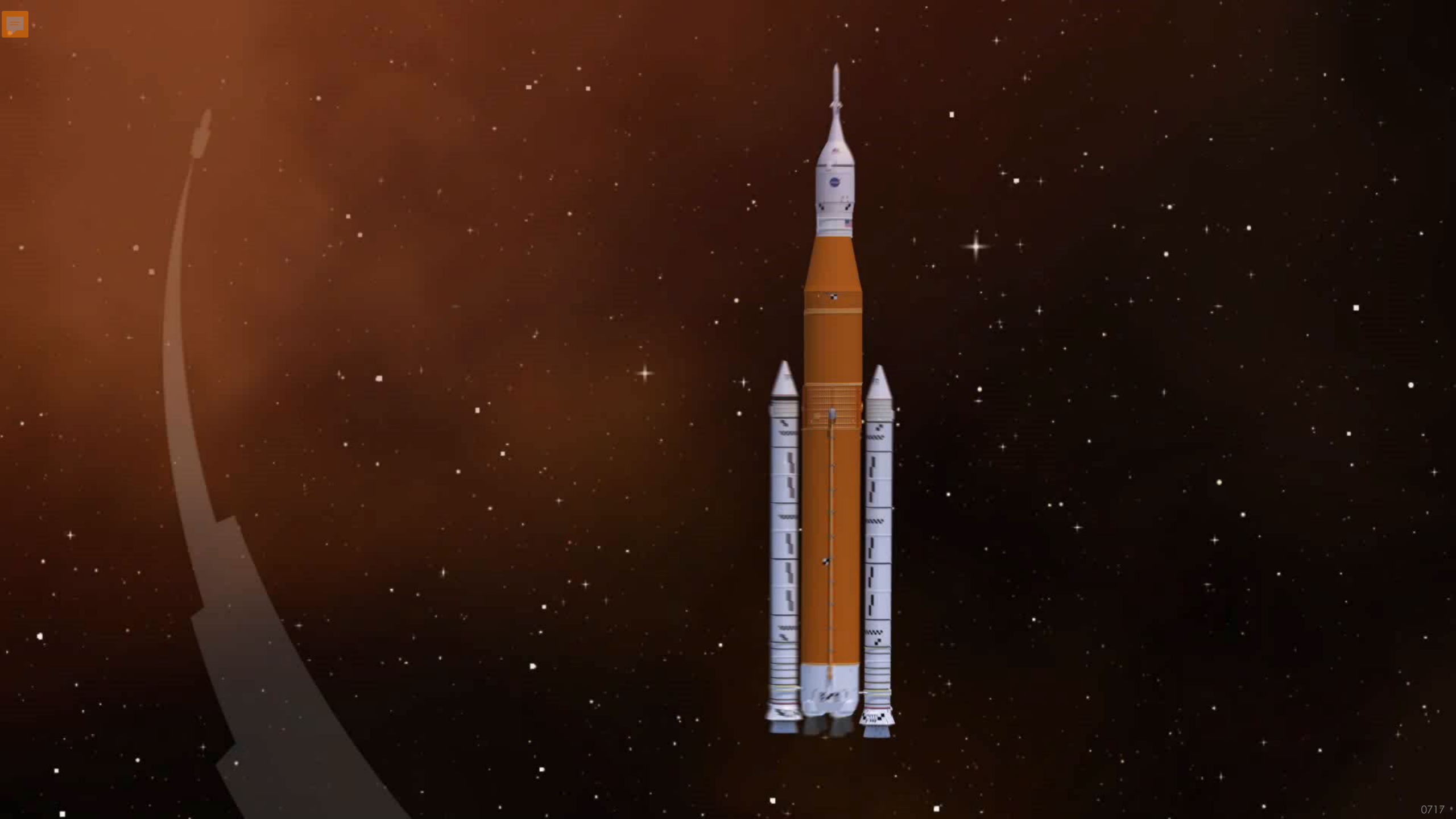
WORKING WITH OVER 1100 CONTRACTORS IN 44 STATES

SLS Program Economic Impact *(U.S.)*

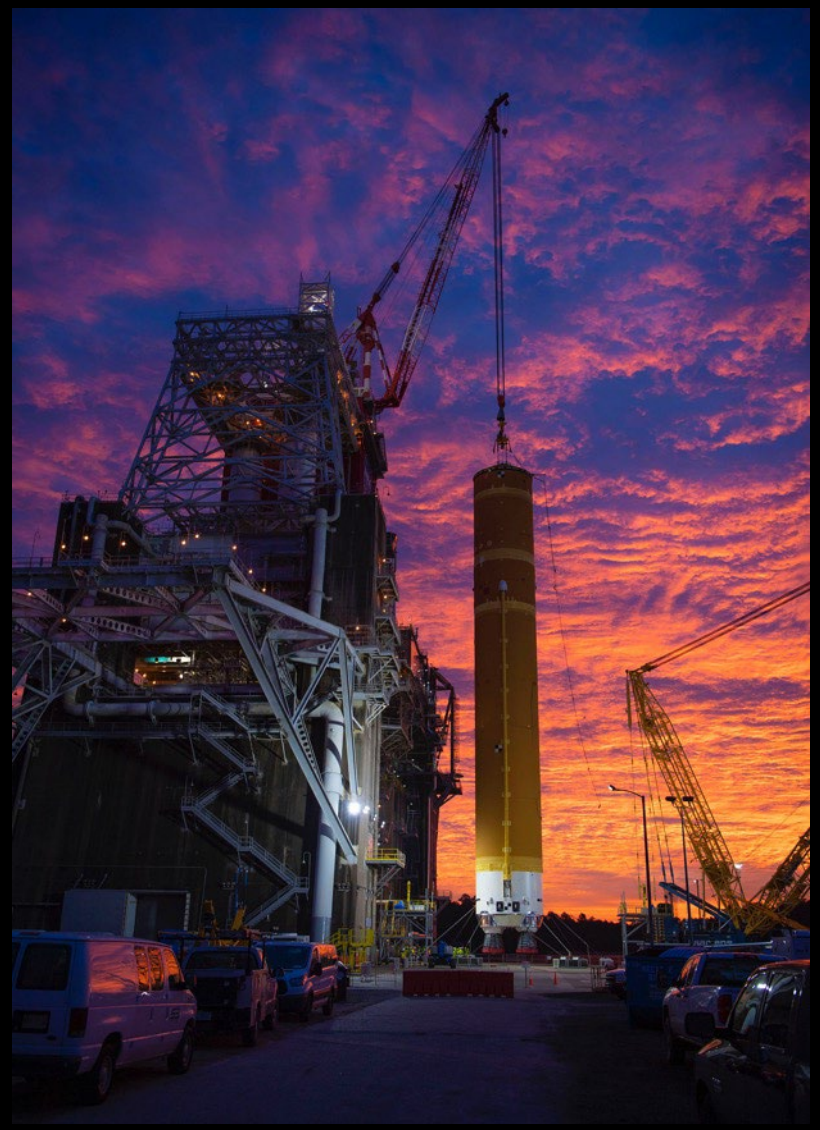
$5.7 billion
32,000 jobs

- **Engaging the U.S. Aerospace Industry**
- **Strengthening Sectors such as Manufacturing**
- **Advancing Technology and Innovation for Deep Space Exploration**

NASA Facilities
NASA Centers

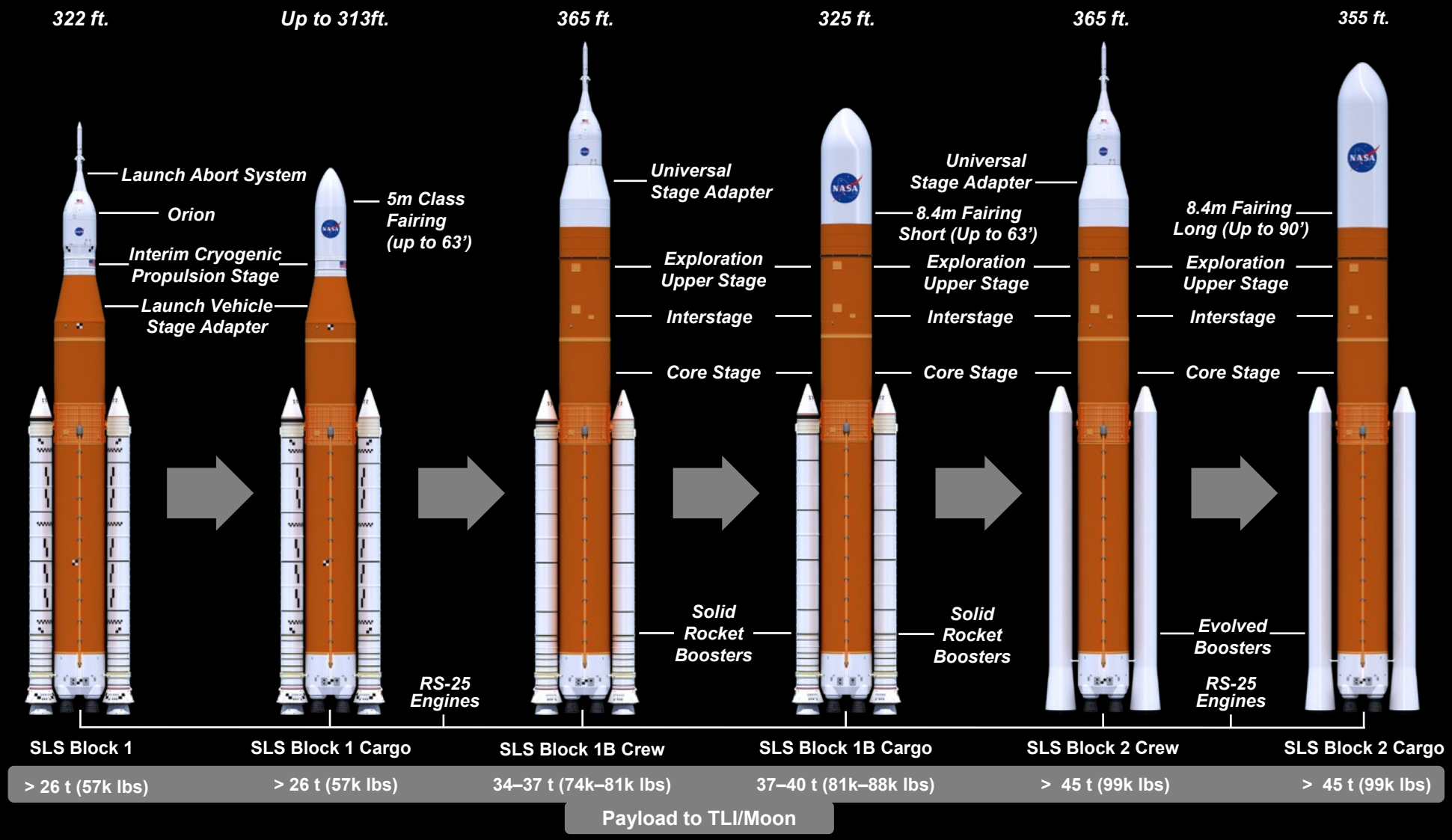


ARTEMIS, I CORE STAGE AT B-2 TEST STAND



SLS Evolvability

Foundation for a generation of deep space exploration

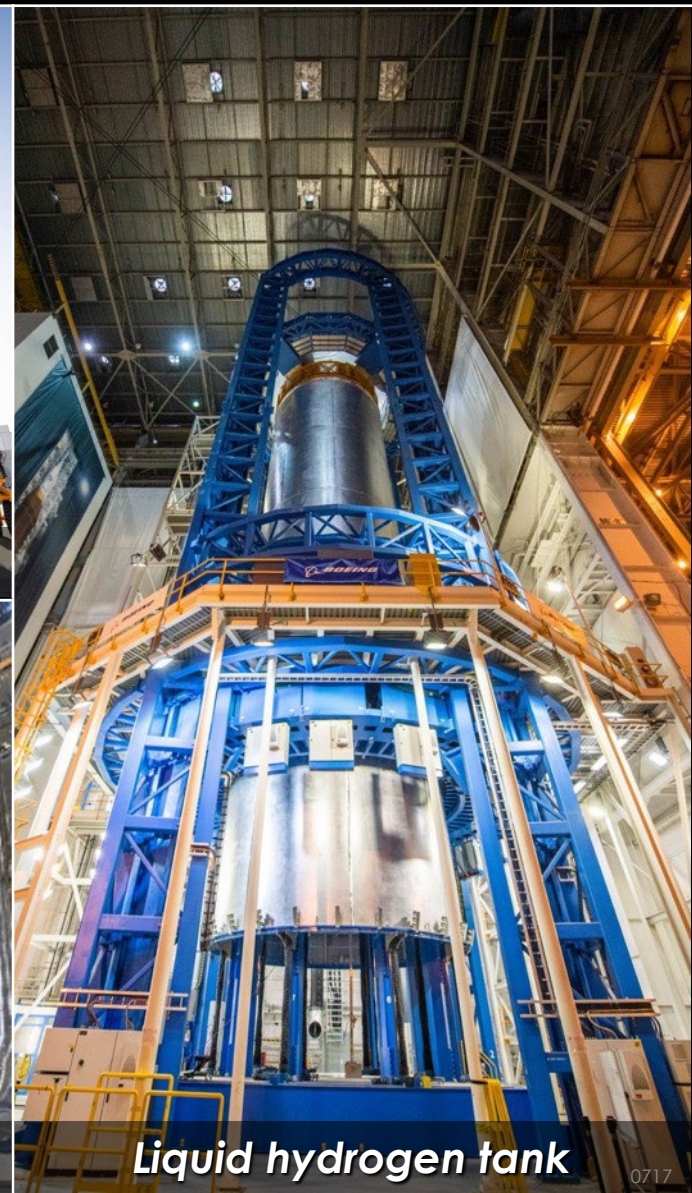


SLS PROGRESS TOWARD ARTEMIS II


All booster motor segments cast


Forward skirt


Liquid oxygen tank



Liquid hydrogen tank


Two RS-25s complete, controllers green run


Engine Section


LVSA, OSA panels

THIRD FLIGHT AND BEYOND

Completed RL10 engines

BOLE subscale motor test fire

Payload adapter manufacturing demonstration article

RS-25 HIP-bonded main combustion chamber

Tooling for USA

EUS weld confidence articles

Additively manufactured pogo accumulator


ARTEMIS
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BACKUP

WHAT IT TAKES TO COME HOME SAFELY

LOW EARTH RETURN

3 HOURS
3,000°F
17,500 MPH
250 MILES

LUNAR RETURN

3 DAYS
5,200°F
24,700 MPH
240,000 MILES

MARS RETURN

9 MONTHS
6,200°F
26,800 MPH
39,000,000 MILES