SPACE LAUNCH SYSTEM

NASA's Space Launch System Program Update

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Enabling Exploration Beyond Earth
SLS Block I Configuration for EM-1

- Launch Abort System (LAS)
- Core Stage & Avionics
  - 5 Segment Solid Rocket
  - RS-25
    - Orbital ATK
    - Aerojet Rocketdyne
  - Boeing
  - Boeing/United Launch Alliance
- Service Module (SM)
- Encapsulated Service Module (ESM) Panels
- Spacecraft Adapter (SA)
- Orion Stage Adapter
- Orion Capsule
  - Lockheed Martin
- Interim Cryogenic Propulsive Stage (ICPS)
  - Boeing/United Launch Alliance
- Orion Stage Adapter
- Launch Vehicle Spacecraft Adapter (NASA)
5-Segment Solid Rocket Booster

QM-1 Test, March 2015

Booster Center Forward Segment
Post-test Disassembly

SLS Booster Insulation Configuration

Case
Liner
Insulation
Propellant
RS-25 Core Stage Engine

RS-25 Adaptation Test, Stennis Space Center

RS-25 Controller
Core Stage Progress

Vertical Assembly Center at Michoud Assembly Facility

LH2 Dome Assembly at Michoud
Core Stage Testing

LH2 Test Stand at Marshall Space Flight Center

B-2 Test Stand at Stennis Space Center

Pegasus Barge at Stennis Space Center
Other work


Scale Model Acoustic Testing, MSFC, 2014


Launch Vehicle Stage Adapter Test Article Panel Assembly, MSFC, 2015
Critical Design Review Complete

CDR activity at Marshall Space Flight Center
With design and development work mostly complete, the SLS Program is now building and testing components of the world’s most powerful rocket to be ready for launch in 2018. Each of these steps advance NASA on the Journey to Mars.