

5...4...3...2...1... SPACE LAUNCH SYSTEM

NASA's Space Launch System Program Update

Garry Lyles SLS Chief Engineer October 12, 2015



www.nasa.gov/sls

Enabling Exploration Beyond Earth





NASA's Journey to Mars

JOURNEY TO MARS





SLS Block I Configuration for EM-1

Launch Abort System (LAS)

Crew Module (CM) Service Module (SM)

Encapsulated Service Module (ESM) Panels Spacecraft Adapter (SA) Orion Stage Adapter

5 Segment Solid Rocket Orbital ATK

Launch Vehicle Spacecraft Adapter (NASA) Orion Capsule Lockheed Martin

Interim Cryogenic Propulsive Stage (ICPS) Boeing/United Launch Alliance

Core Stage & Avionics Boeing

RS-25 Aerojet Rocketdyne



5-Segment Solid Rocket Booster



QM-1 Test, March 2015



Booster Center Forward Segment Post-test Disassembly



SLS Booster Insulation Configuration



RS-25 Core Stage Engine



RS-25 Adaptation Test, Stennis Space Center



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



SLS Base Heating Tests, CUBRC Inc. New York, 2015



SLS Core Stage Avionics Testing, Marshall Space Flight Center, 2014-2015



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



www.nasa.gov/sls

SLS Path to Launch

