



Ares I Crew Launch Vehicle

# Upper Stage

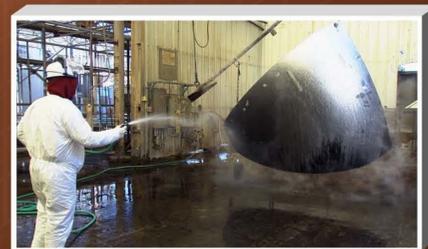


Cutting Dome Gore Panels for LH<sub>2</sub> Tank

## ◆ Major Milestone:

### Completed Thrust Vector Control and Avionics and Software subsystem Preliminary Design Reviews

- Completed installation of vertical weld tool in Building 4755
- Fabricated the first constant-thickness gore panels for the hydrogen tank dome manufacturing demonstration article
- Conducted vent and relief testing of heritage S-IVB valves for main propulsion system design



Chemical Milling of Gore Panel



Vertical Weld Tool Installation



S-1VB Valve Testing

