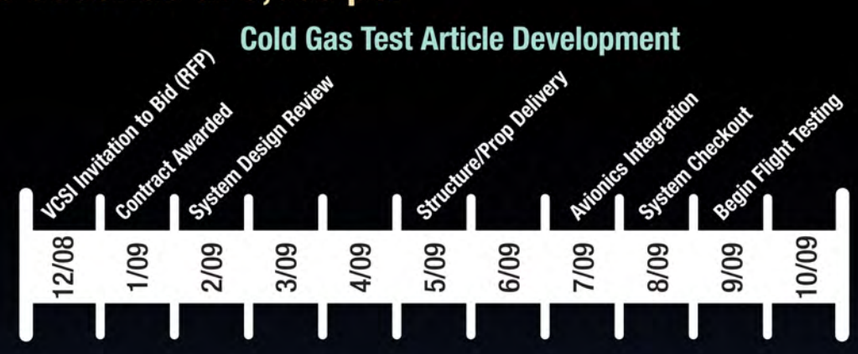
National Aeronautics and Space Administration

Robotic Lunar Lander Development Project

Robotic Lander Test Bed

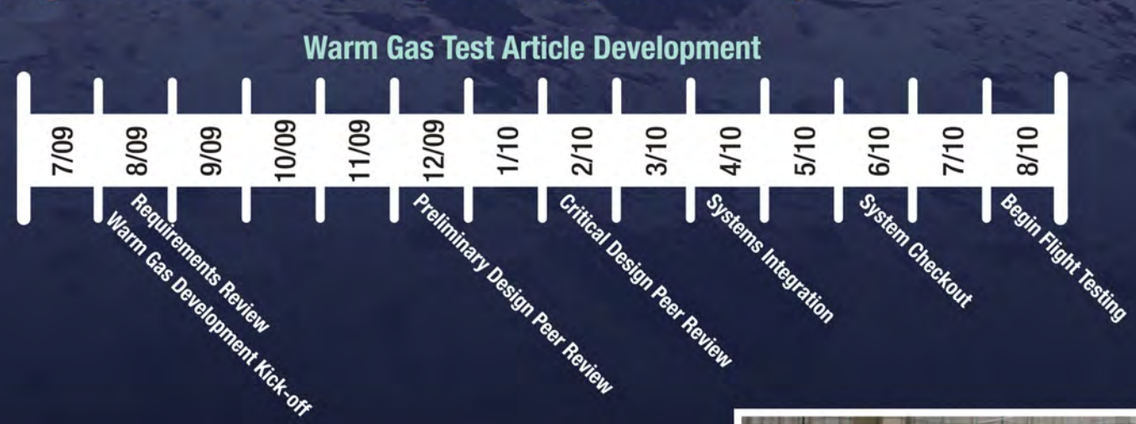
Cold Gas Test Article Characteristics

- Completed in 9 months
- Emulates Robotic Lunar Lander thruster configuration
- Demonstrates autonomous controlled descent and attitude control
- Utilizes compressed air for safety, operational simplicity, and frequent testing
- Flight time of 10 seconds at 3,000 psi



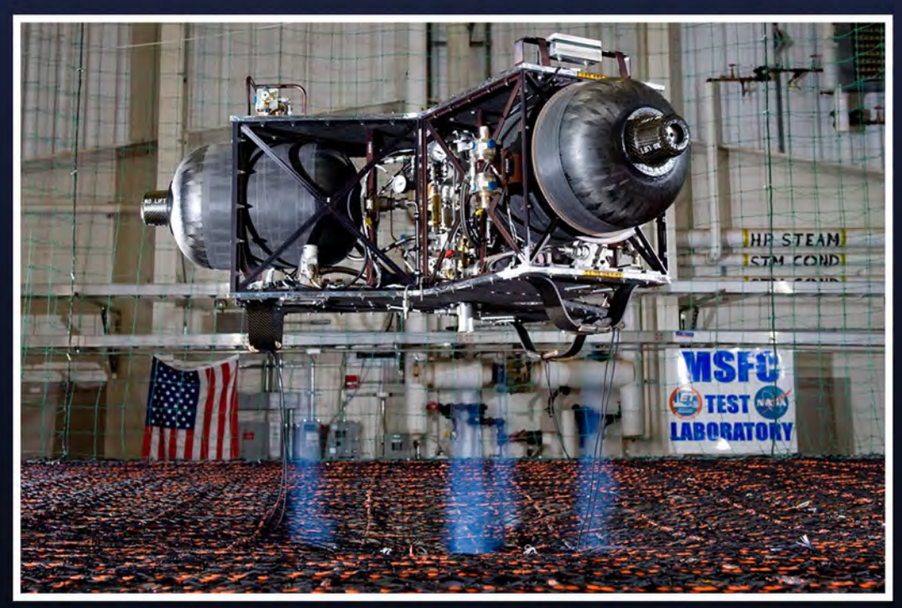
Warm Gas Test Article Characteristics

- Provides longer flight duration (~1 min) and greater altitude for more complex testing
- Emulates Robotic Lunar Lander thruster configuration
- Demonstrates autonomous controlled descent and attitude control
- Utilizes flightlike sensor suite
- Structure developed using flightlike processes and materials
- Provides flightlike software environment
- Utilizes flightlike avionics components (processors)



Test Bed Capabilities

- Flexibility to accommodate various sensors, avionics, and software/algorithms for test
- Open to academia and private industry testing



For more information go to <www.nasa.gov/roboticlander>.