NASA’S HUMAN LUNAR LANDING STRATEGY
Final solicitation issued September 30

Firm Fixed-Price, milestone-based proposals for design, delivery, and demonstration

Drafts issued July 19 and August 30; +1,150 comments from industry

Proposals due November 1, 2019
Human Landing System – NextSTEP-2 Appendix H

• Minimally prescriptive to provide maximum room for innovation
  • Reduced functional performance requirements from ~300 down to 26
  • Reduced required contract deliverables from 116 to 37

• BAA Evaluation Criteria in descending order of importance:
  • Technical Approach
  • Price
  • Management Approach

• Select at least three companies in January 2020
  • Based on ability to meet the technical requirements of 2024 mission at the best value for the government
  • Goal of at least two passing a continuation review to take designs to flight
  • One to fly in 2024, other in 2025
Government Concept of Operations
Support Across Mission Directorates

**STMD**
- Tipping Point Selections
- Other

**SMD**
- Commercial Lunar Payload Services (CLPS)
- Prioritize science objectives of Artemis III (2024 mission) and coordinate with HEOMD on science objectives for Artemis IV and beyond
Lunar Science by 2024

POLAR LANDERS AND ROVERS
- First direct measurement of polar volatiles, improving understanding of lateral and vertical distribution, physical state, and chemical composition
- Provide geology of the South-Pole Aitken basin, largest impact in the solar system

NON-POLAR LANDERS AND ROVERS
- Explore scientifically valuable terrains not investigated by Apollo, including landing at a lunar swirl and making first surface magnetic measurement
- Using PI-led instruments to generate Discovery-class science, like establishing a geophysical network and visiting a lunar volcanic region to understand volcanic evolution

ORBITAL DATA
- Deploy multiple CubeSats with Artemis I
- Potential to acquire new scientifically valuable datasets through CubeSats delivered by CLPS providers or comm/relay spacecraft
- Global mineral mapping, including resource identification, global elemental maps, and improved volatile mapping

IN-SITU RESOURCE INITIAL RESEARCH
- Answering questions on composition and ability to use lunar ice for sustainment and fuel
Artemis Phase 2: Building Capabilities for Mars Missions

SUSTAINABLE LUNAR ORBIT STAGING CAPABILITY AND SURFACE EXPLORATION
MULTIPLE SCIENCE AND CARGO PAYLOADS
INTERNATIONAL PARTNERSHIP OPPORTUNITIES
TECHNOLOGY AND OPERATIONS DEMONSTRATIONS FOR MARS

2025

2029