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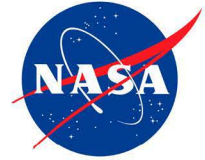
Description of document:	National Aeronautics and Space Administration (NASA) Acquisition Strategy for Artemis program Human Landing System, 2019
Requested date:	24-May-2020
Release date:	15-June-2020
Posted date:	02-November-2020
Source of document:	NASA Headquarters 300 E Street, SW Room 5Q16 Washington, DC 20546 Fax: (202) 358-4332 Email: hq-foia@nasa.gov

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National Aeronautics and Space Administration

Headquarters

Washington, DC 20546-0001



6/15/2020

Reply to attn. of: Office of Communications

Re: NASA FOIA Tracking Number 20-HQ-F-00548

This responds to your Freedom of Information Act (FOIA) request to the National Aeronautics and Space Administration (NASA), dated 5/25/2020, and received in this office on 5/28/2020. Your request was assigned the above-tracking number. You seek:

A copy of the Acquisition Strategy (AS) and Acquisition Plan (AP) documents in the Contract File for the Human Landing System for the Artemis program.

In response to your request, we conducted a search of NASA's Office of Procurement using the search terms: HLS ASM; HLS Acquisition Strategy; HLS PSM; HLS Procurement Strategy. That search identified 6 pages that are responsive to your request. We determined that all 6 pages are appropriate for release without excision and copies are enclosed.

Additionally, the program office explained some of the records you seek were proactively posted on NASA website(s). The FOIA does not obligate federal agencies to provide records that are already publicly available in accordance with 5 U.S.C. § 552(a)(2). The NASA Federal Acquisition Regulation (FAR) Supplement Section 1807.103 (e)(iii)(B) indicates that Acquisition Plans are not required for Broad Agency Announcements (BAA). The Human Landing System award was made under NASA's "Next Space Technologies for Exploration Partnerships (Next STEP)" BAA as Appendix H. All acquisition plan documents, including the evolution thereof, are found at:

<https://www.nasa.gov/nextstep/humanlander2>

If you believe this to be an adverse determination, you have the right to appeal my action on your request. Your appeal must be received within 90 days of the date of this response. Please send your appeal to:

Administrator

NASA Headquarters
Executive Secretariat
ATTN: FOIA Appeals
MS 9R17
300 E Street S.W.
Washington, DC 2054

Both the envelope and letter of appeal should be clearly marked, "Appeal under the Freedom of Information Act." You must also include a copy of your initial request, the adverse determination, and any other correspondence with the FOIA office. In order to expedite the appellate process and ensure full consideration of your appeal, your appeal should contain a brief statement of the reasons you believe this initial determination should be reversed. Additional information on submitting an appeal is set forth in the NASA FOIA regulations at 14 C.F.R. § 1206.700.

Assistance and Dispute Resolution Services

If you have any questions, please feel free to contact me at Stephen.G.Rowe@nasa.gov. For further assistance and to discuss any aspect of your request you may contact:

Stephanie Fox
Chief FOIA Public Liaison
Freedom of Information Act Office
NASA Headquarters
300 E Street, S.W., 5P32
Washington D.C. 20546
Phone: 202-358-1553
Email: Stephanie.K.Fox@nasa.gov

Additionally, you may contact the Office of Government Information Services (OGIS) at the National Archives and Records Administration to inquire about the FOIA mediation services it offers. The contact information for OGIS is as follows: Office of Government Information Services, National Archives and Records Administration, 8601 Adelphi Road-OGIS, College Park, Maryland 20740-6001, e-mail at ogis@nara.gov; telephone at 202-741-5770; toll free at 1-877-684-6448; or facsimile at 202-741-5769.

Important: Please note that contacting any agency official including myself, NASA's Chief FOIA Public Liaison, and/or OGIS is not an alternative to filing an administrative appeal and does not stop the 90 day appeal clock.

Sincerely,

Stephen Rowe

Stephen Rowe
FOIA Public Liaison

Acquisition Strategy Council

Decisions and Actions

VITAL MEETING DATA

Date: May 22, 2019, 3:00 PM – 7:00 PM

Location: NASA Headquarters 8Q40

Attendance: ASC members and invited participants. The Associate Administrator chaired.

MEETING ACTIVITIES

The ASC met to get approval for the Human Landing System and Gateway initial configuration updates. The ASC was asked to decide:

- Human Landing System (HLS) acquisition strategy
- Discussion of Initial Capability Suit acquisition strategy
- Revisions to Gateway Phase 1 and Phase 2 procurement approaches to enable meeting the 2024 target for landing humans on the lunar surface.

FIRST ITEM OF BUSINESS: To define the top-level acquisition strategy for systems required for landing humans on the surface of the Moon by 2024. *(Decisional)*

The HLS acquisition strategy was presented to the ASM detailing the forward plan to land humans on the lunar surface before 2024. Included in the discussion was the ascent/descent/transfer vehicle architecture that will be the baseline. The vendors will have the liberty to propose a different architecture including a two-stage system. Reusability is not required. The strategy is to let the vendor propose their best solution. Will look at how they will utilize the Gateway orbit and allow trades from NRHO. The strategy is to incorporate requirements into the BAA and ask the contractor to meet or exceed HEOMD-003 deep space cert requirements and standards.

The acquisition strategy also discussed how NASA can embed engineers in with the contractor to supply NASA expertise. The vendor will be asked to propose how to optimize and include cooperation with NASA as part of their plan and proposal for the HLS.

Appendix H of the BAA includes:

- Integrated lander –
- FFP, milestone-based contracts
- BAA end of June, awards October
- Continuation review, fund 2 contractors through development and 2024/2025 crewed flight demos

The ASC agreed to have HEOMD take this acquisition plan into a PSM and formulate the BAA and also the RFI and then form a strategy on how to communicate this to the community at large.

This upcoming PSM should include:

(1) Requirements in BAA and being clear on schedule and how they will be held accountable for schedule, including actions for missed milestones including termination. Be clear with them if they propose FP milestone payments that will allow them to be successful. (2) Evaluation criteria and what weight should be put on it to drive a credible plan that will meet the 2024 date, not just the best technical solution. Must meet performance and safety but must also be credible.

Other things to plan to address in the PSM include:

(3) Decide whether or not to ask for contributions or will this distract from goal of making 2024 and doing it safely.

(4) How many initial awards. Recommend minimum 3.

(5) Contract type for phase 2

a. Want to be sure to include milestone payments that allow contractor to not get behind in paying their costs.

(6) Look at possibilities for protests. How to write to minimize the likelihood. How to handle if it happens and how to reduce/handle risks.

This program will be tailorable, and needs to be implemented efficiently. Need to get with OCE, S&MA, CFO, PMIO, and be ready at the PSM with the approach.

The HLS ASM satisfies the requirement of the Formulation Authorization Document (FAD) for HLS.

Decision: Based on the accelerated schedule to return to the Lunar surface by 2024 the following aspects of the Human Lander Systems acquisition strategy are approved:

- *HEOMD is approved to proceed with a Procurement Strategy Meeting (PSM) with the intent of releasing Appendix H to the current NextSTEP-2 BAA. The PSM will deliberate the firm-fixed price, milestone-based contract approach. The PSM should also define more specific contract deliverables.*
- *The ASC agreed that the acquisition is for an integrated human landing system, assuming a baseline architecture of three stages: transfer vehicle, descent element and ascent element. This acquisition decision only applies to the first crewed lunar landing demonstrations targeted for 2024 and 2025, and allows HEOMD to select more than one industry provider. Subsequent services acquisition will require a future ASM.*
- *In addition to the acquisition strategy, the ASC agreed for HEOMD*

- *To incorporate HLS agency/system level requirements into Appendix H BAA*
- *To require proposers to include their approaches to meet or exceed the intent of requirements in HEO-003 Deep Space Systems Certification Requirements and Standards*
- *The ASC agreed to the proposed NASA Center Roles for Marshall Space Flight Center, including*
 - *System-level Program Management*
 - *Systems Engineering & Integration*
 - *Program Planning and Control*
 - *Partner Management*
- *The ASC agreed to the proposed NASA Center Roles for Johnson Space Center, including*
 - *Human / Spacecraft Integration*
 - *EVA Development, including surface suit development.*
 - *Crew Interface*
- *The ASC agreed to the proposed NASA Center Roles for Kennedy Space Center, including*
 - *Launch Vehicle Integration*
- *The ASC discussed and approved a strong NASA and industry partnership. The details on the partnership including multi- center support roles will be determined as part of the PSM decision to incorporate in the proposal evaluations.*

Actions (formal require in-board closure; informal do not):

1. **Informal:** HEOMD in coordination with OCE and Office of Procurement to lead effort to include in acquisition evaluation criteria the extent to which the offeror leverages NASA expertise or resources, including embedding NASA personnel with the contractor team. Due: Prior to PSM, approximately 3rd week in June.
2. **Formal:** HEOMD, via the PPMB, and working with OCE, OCFO SID, and PMIO (James Ortiz) to develop efficient approach to Program Management and Program Control, 7120.5E. Due: Prior to PSM, approximately 3rd week in June. Formal closure may be briefed to the APMC along with action (4) below.
3. **Formal:** HEOMD to bring an acquisition strategy (ASM) for the surface lunar suit to the ASC, prior to release of any solicitations. Due: 1 Sep 2019.
4. **Formal:** HEOMD, working with appropriate Centers, to bring initial plan for which center should lead the SE&I activities that will interface with the HLS partners. Due: September 30, 2019. Closure to be briefed to the APMC.
5. **Formal:** HEOMD, working with appropriate Centers, to bring initial plan on staffing profile and key roles on HLS. Due: In time to support Fall ASIP and Center Roles update,

approximately 30 Sep 2019. Closure during HEOMD Center Roles briefing to fall ASC/ASIP meeting.

Actions Reviewed:

- HEOMD in collaboration with the Technical Authorities to establish initial reliability requirements for the integrated Human Landing System (HLS). Due: May 22, 2019

Outcome: Coordinated with S&MA Technical Authority to establish HLS reliability requirements for the initial human landing system in 2024 and the sustained human landing system by May 22. Initial reliability for the HLS in 2024 is 0.975 and by 2028 is 0.875 pending further discussion.

- HEOMD to baseline the current HEOMD-003, which includes standard 8705, as a reference for industry during the lunar lander procurements. HEOMD to consider future updates to HEOMD-003 based on industry feedback and the potential for applying the document to eventual contracts establishing reliability requirements. Due: May 22, 2019

Outcome: Worked with TA's to provide a draft of HEOMD-003 to Appendix E selectees for comment. Once comments are received, updates to HEOMD-003 will be considered.

- HEOMD to establish data and deliverable requirements (e.g., verification plans, Design and Construction Standards (Type 2), FMEA/Cils, and Hazard Reports) to ensure NASA has insight for human rating compliance. Due: May 22, 2019

Outcome: Currently requirements are included in HEOMD-003. Updated requirements will be based on feedback from industry partners.

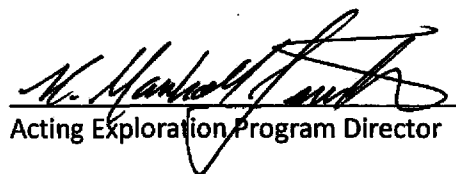
SECOND ITEM OF BUSINESS: *Gateway Program Acquisition Strategy Modifications to be Operable by 2024 (Decisional)*


Decision: Based on the accelerated schedule to return to the Lunar surface by 2024 the previously approved Gateway Acquisition Strategy is modified to include procuring a minimum habitation capability in phase 1, and deferring the US Habitation module to phase 2. All other Gateway ASM decision and assignments stand.


- *HEOMD will leverage the NextSTEP-2 BAA Appendix A to select a single contractor who will deliver a minimum habitation capability. This will be a “buy” instead of an “in-house build” as specified in the original ASM*

The Council adjourned at 7:00 PM.

Concurrence and Commitment

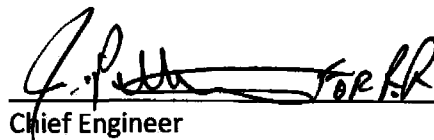

Acting Exploration Program Director 6/11/19 Date

 12 June 2014
Associate Administrator, HEOMD Date


Chief Financial Officer 6/13/19 Date
Jeff DeWit

 6/13/2019
General Counsel Date

 6/13/19
Assistant Administrator, Procurement Date

 for R.R. 6-13-19
Chief Engineer Date

Approval:

 6/14/19
Associate Administrator Date