SOLICITATION, OFFER,	CITATION OFFED 1. SOLICITATION NUMBER 2. TYPE OF SOLICITATION 3. DATE ISSUED PAGE OF			OF	PAGES			
AND AWARD			SEALED BID (IFB)					
(Construction, Alteration, or Repair)	80KSC018R0032	▼ NEGOTIATED (RFP)			06/29/2018	1		
IMPORTANT - The "offer" section on the rever		eted b	oy offeror.		100/20/2010			
4. CONTRACT NUMBER	5. REQUISITION/PURCHAS	HASE REQUEST NUMBER 6. PROJECT NUMBER						
7. ISSUED BY CODE		8. AD	DRESS OFFER TO	1				
NASA/John F Kennedy Space Center		NAS	SA/John F Kenne	edy Spac	ce Center			
Mail Code: ML-2 SEB			Code: ML-2 SE					
Kennedy Space Center, FL 32899		Ken	nedy Space Cer	nter, FL 3	32899			
9. FOR INFORMATION a. NAME			b. TELEPHONE NUM	BER (Includ	de area code) (NO COL	LECT CALL	.S)	
CALL: Timothy Freeland			321-867-5131	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		- /	
	SOLIC							
NOTE: In sealed bid solicitations "offer" and "of								
10. THE GOVERNMENT REQUIRES PERFORMANCE OF T	THE WORK DESCRIBED IN	THESE	E DOCUMENTS (Title,	identitying n	umber, date)			
Mobile Launcher 2 (ML2)								
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Phase One, Design Build - Request for Qu	alifications							
Unrestricted Competition								
11. The contractor shall begin performance within	calendar	days a	and complete it within	n	calendar days a	fter receivi	ng	
award, notice to proceed. This performan	nce period is mandato	ory [negotiable. (Se	e).	
12a. THE CONTRACTOR MUST FURNISH ANY REQUIRED	D PERFORMANCE AND PAY	MENT	BONDS?		12b. CALENDAR D	DAYS		
(If "YES", indicate within how many calendar days after								
YES X NO								
13. ADDITIONAL SOLICITATION REQUIREMENTS:								
a. Sealed offers in original and4 copies to p	perform the work required	are du	ue at the place speci	fied in Iten	n 8 by <u>3:00 PM</u>	(hour)		
local time07/30/2018 (date). If this is a sealed bid solicitation, offers will be publicly opened at that time. Sealed envelopes								
containing offers shall be marked to show the offere	or's name and address, th	e soli	citation number, and	the date a	and time offers are d	ue.		
b. An offer guarantee is, is not require	ad							
b. All one guarantee 15, 15 not require	- u.							
c. All offers are subject to the (1) work requirements,	and (2) other provisions a	nd cla	uses incorporated in	the solicit	ation in full text or b	y reference	٠.	
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d. Offers providing less than N/A calendar da	ays for Government accep	otance	after the date offers	are due w	vill not be considered	d and will b	e rejed	cted.

0	FFER (Must be	fully complete	ed by offero	r)			
14. NAME AND ADDRESS OF OFFEROR (Include ZIP Code)	,			clude area code,)		
		16. REMITTAN	16. REMITTANCE ADDRESS (Include only if different than Item 14.)				
CODE FACILITY CODE							
17. The offeror agrees to perform the work required at the prices by the Government in writing within calendar da stated in Item 13d. Failure to insert any number means the	ys after the date offer	s are due. (Insert	any number equ		•		
AMOUNTS							
18. The offeror agrees to furnish any required perf	formance and pag	yment bonds.					
1 (The offeror acknowle	9. ACKNOWLET	-		_	of each)		
AMENDMENT NUMBER							
DATE.							
20a. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN (OFFER (Type or print) 20b. SIGNATU	RE			20c. OFFER D	DATE
A	WARD (To be c	ompleted by	Government	t)			
22. AMOUNT	23. ACCOL	JNTING AND APP	ROPRIATION D	DATA			
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26. ADMINISTERED BY		27. PAYMENT	WILL BE MADE	ВУ			
CONTRACTING O	FFICER WILL C	OMPLETE ITE	M 28 OR 29	AS APPLIC	ABLE		
28. NEGOTIATED AGREEMENT (Contractor is required to and return copies to issuing office.) Contractor and deliver all items or perform all work requirements identify any continuation sheets for the consideration stated in this cand obligations of the parties to this contract shall be govern award, (b) the solicitation, and (c) the clauses, representation specifications incorporated by reference in or attached to the	r agrees to furnish fied on this form and contract. The rights ned by (a) this contract ons, certifications, and	solicitation contract, v this contra	is hereby accep which consists of	oted as to the ite (a) the Governn	sign this documer ms listed. This aw nent solicitation a document is nece	vard consummand your offer, a	ates the
30a. NAME AND TITLE OF CONTRACTOR OR PERSON AUTI (Type or print)	HORIZED TO SIGN	31a. NAME OF	CONTRACTING	G OFFICER <i>(Ty_l</i>	oe or print)		
30b. SIGNATURE	30c. DATE	31b. UNITED S	STATES OF AME	ERICA		31c. DAT	E
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National Aeronautics and Space Administration



Mobile Launcher 2 (ML2) 80KSC018R0032

DESIGN-BUILD PHASE 1 REQUEST FOR QUALIFICATIONS

Issue Date: June 29, 2018

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ATTACHMENTS

- A. Subsystem List
- **B.** Pre-Proposal Inquiry Form
- C. Representation and Certification
- D. Organizational Conflicts of Interest (OCI)
- **E.** Relevant Projects
- F. Past Performance Questionnaire
- **G.** Safety Past Performance

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1.0 ACQUISITION OVERVIEW

Scope of Work. This project is the design and construction of the National Aeronautics and Space Administration (NASA) Mobile Launcher 2 (ML2) for the Space Launch System (SLS). The scope of work includes all project management, architectural and engineering design, technical integration, fabrication, construction, testing, commissioning, quality control, and other related services to design and construct the ML2 for use by the Exploration Ground Systems (EGS) Program at Kennedy Space Center (KSC), Florida.

The purpose of ML2 is to provide the launch platform and physical interfaces from the KSC launch site ground systems to the SLS Block 1B (and subsequent) launch vehicle configurations. The ML2 is a mobile structure that must interface with the Crawler Transporter (CT), Vehicle Assembly Building (VAB), Launch Complex Pad 39B (LC39B), and both east and west Mobile Launcher Parksites. Each location has its own set of physical and subsystem interface requirements that the contractor must incorporate into the design. The ML2 design must also integrate with existing processing equipment, such as handling and access equipment and mobile ground support equipment (GSE). The ML2 will be exposed to unique dynamic loads from SLS launches. The contractor must give special consideration to the design of the overall tower structure and all equipment exposed to the extreme launch environments. The Government is open to unique and creative solutions to meet the requirements stated above; however, any solution must also work within certain launch site constraints.

The ML2 includes many different subsystems that must integrate, operate and fit within the constraints of the structure. Due to the uniqueness of some subsystems, the Government may provide previously developed designs as either the basis or as the point of departure for subsystem design and development. A high level of integration during design and construction will be paramount to the success of the project.

The Government will award to the successful offeror a design-build contract to provide a complete ML2 for SLS Block 1B (and subsequent) launch vehicle configurations. The Government estimates the magnitude of the requirement will be greater than the amount shown in FAR 36.204(h).

The Government expects innovation, integration, and collaboration in both design and construction phases in order to maximize cost and schedule efficiencies. Requirements identified in the Phase 2 statement of work shall be, to the greatest degree possible, performance-based to allow for flexibility and innovation. Alternative concepts and innovative design and construction solutions will be highly encouraged and rewarded.

The design-build award fee method was chosen for this acquisition because quality, schedule and constructability are of paramount importance to the Government. Completion of the project on or before the 44 month time period of performance is critical to maintaining NASA's launch manifest for deep space exploration. All parties to the contract must be committed to ensuring these goals are accomplished. The Government will select a design-build team that is willing to partner with the Government to maximize these goals. By using the design-build method and performance-based requirements, the Government has given the design-build team broad latitude to innovate during design and construction. The design-build team is expected to institute and foster an innovative, effective, and efficient management program able to achieve the primary objective while continuing to maintain appropriately high levels of quality within the project

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budget. For its part, the Government is committed to adapting its established oversight processes to support accomplishment of the schedule goal. This in no way implies a diminished focus on safety during construction, or quality of the resulting mobile launch platform. Human lives are at stake in both circumstances, and NASA's long-standing high expectations and standards in these areas remain.

The Contractor will provide design trade studies, integrated three-dimensional (3D) models, specifications (including detailed technical requirements and other items such as logistics, human factors, and life safety), and drawings for the structure and subsystem designs, construction details, and commissioning plans. The Contractor will perform technical integration between subsystems and Government Furnished Equipment (GFE); manage quality control for on- and off-site fabrications; perform construction services, including engineering services during construction; and plan and execute required testing and commissioning. The Contractor will manage cost and schedule via an Earned Value Management (EVM) System (EVMS).

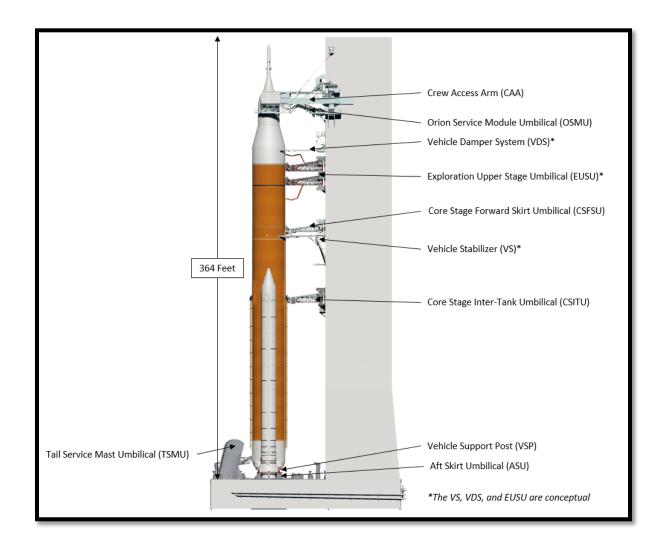
Attachment A provides an overview of the subsystems and associated functionality on the ML2. Additional technical reference data, including a draft Work Breakdown Structure (WBS) for the future Statement of Work, is provided in the Bidder's Library, located on the FedBizOpps website (www.fbo.gov). Some of the designs and/or hardware associated with these subsystems may be GFE and will be specified in the Phase 2 Request for Proposal (RFP).

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SITE MAP – Kennedy Space Center, LC-39 Area



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Note: The ML2 Structure is purposely left blank in the figure above so that offerors infer no preconceived notions of structural design. Physical dimensions, other than height, will be similar to ML1.

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1.2 Identification of the Point of Contact.

Timothy Freeland, Contracting Officer Mail Code: ML2-SEB Kennedy Space Center, FL 32899

KSC-ML-2-info@mail.nasa.gov

1.3 Overview of the Source Selection Process. This acquisition is a two-phase, design-build selection procedure in accordance with Federal Acquisition Regulation (FAR) Subpart 36.3.

In the Phase 1, the Request for Qualifications (RFQ), the Government will evaluate offerors' Relevant Experience and Past Performance (REPP), Technical Approach, and Specialized Experience. Section 4 of this solicitation provides submittal instructions and Section 5 describes the evaluation criteria and selection procedures for Phase 1. Based on the evaluation of Phase 1 criteria, the Contracting Officer, with concurrence of the Source Selection Authority (SSA), will select no more than five of the most highly qualified offerors to advance to Phase 2.

The Government will use the following evaluation factors in the Phase 2 RFP:

- A. Cost
- B. Mission Suitability (Technical, Management, and Small Business Utilization)

All evaluations factors other than cost, when combined, will be significantly more important than cost. The Phase 2 RFP will provide greater detail and will include all technical requirements and contract clauses for award. The SSA will make the final selection for award, considering both the Phase 1 REPP and Phase 2 evaluation results. The SSA will select the best overall value to the Government, which may result in a contract award to an offeror that is not the lowest priced.

1.4 Definition of Offeror. Firms formally organized as design-build entities, design firms, construction contractors that have associated specifically for this project, consortia of firms, or any other interested parties may submit proposals. Associations may be as joint ventures or as key team subcontractors. Any legally organized business offeror may submit a proposal. To qualify for Phase 2, the offeror must have professional architects and engineers, registered in the appropriate technical disciplines and capable of meeting the requirements specified in FAR 52.236-25, Requirements for Registration of Designers. All designs must be under the direct supervision of appropriately licensed professionals for each discipline involved.

Offerors proposing as a joint venture must provide a copy of the joint venture agreement with the initial proposal. All parties to a joint venture must sign the joint venture agreement. In order to be eligible for award, the offeror must register the joint venture in the System for Award Management (SAM) (www.sam.gov). In addition, all parties to a joint venture must sign the SF 1442, as well as all future documents. The Government will not award the contract to any joint venture that changes any party that its proposal includes as a part of its joint venture.

1.5 Contract Characteristics and Award Fee Provisions. The Government intends to award a single design-build, end-item Cost-Plus-Award-Fee (CPAF) contract in accordance with NASA FAR Supplement (NFS) 1852.216-77. This contract will include a provision permitting conversion to Firm-Fixed-Price (FFP) if it becomes advantageous to the Government during the

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project. The contract will require the Contractor to provide an FFP proposal at approximately the 90% design stage. The Government anticipates the contract period of performance to be no longer than 44 months. The Government will provide further details, including a draft Award Fee Plan, in the Phase 2 RFP.

1.6 Acquisition Milestones. (Dates are subject to change.)

Phase 1 – Request for QualificationsJune 29, 2018Issuance of RFQJuly 15, 2018Industry DayJuly 16, 2018Offerors' OCI Assessments and Mitigation Plans Due

July 30, 2018 Proposals Due
August 24, 2018 Complete evaluations and determine Phase 1 Shortlist

Phase 2 – Request for Proposals

Issue Draft RFP
Issue Final RFP
Proposals Due
Contract Award

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2.0 PHASE 1 SUBMITTAL PROCESS

- **2.1 Announcements.** The Government published the Pre-Solicitation Synopsis of the project on FedBizOpps (www.fbo.gov) on June 8, 2018. The Government will communicate further announcements for this solicitation through the FedBizOpps website. The ML2 website at https://procurement.ksc.nasa.gov/ml2 will provide links to NASA documentation and links directly to FedBizOpps.
- 2.2 Industry Day. The Government will hold a Phase 1 Industry Day at KSC on July 15, 2018. The purpose of this event is to provide a summary of the ML2 project and familiarize potential offerors with the current Mobile Launcher (ML1). Industry Day will include a tour of ML1 and a question-and-answer (Q&A) session. The Government will hold the Q&A session after the completion of the tour. The Government will record all questions and responses and post them on the FedBizOpps website for reference. The Government reserves the right to alter or change responses if the information conveyed during the live Q&A session is determined inaccurate or misleading; the posted response shall take precedence.

Due to space limitations, interested parties may send up to two representatives from each company. Representatives must be United States citizens. Attendance of any representative is subject to the Government's approval, which will be final.

Those companies planning to attend must notify the Contracting Officer by email at KSC-ML-2-info@mail.nasa.gov no later than July 7, 2018. Companies must include the full names of both attendees, their company affiliation, and provide written confirmation that they are both US citizens in the body of the email. The Government will provide details and further instructions in the email response.

2.3 Pre-Submission Inquiries. Offerors must submit any questions regarding the RFQ in writing on or before July 16, 2018. The Government will consider, but may not answer, questions received after that date. The Government will post the questions and the Government's responses to the FedBizOpps website. Due to controlled information, all offerors must register in SAM (www.sam.gov) and the FedBizOpps websites to view or download the pertinent information from the FedBizOpps website. The Bidder's Library will be located on the FedBizOpps website noted above. Access to the Bidder's Library requires Directorate of Defense Trade Controls registration (www.pmddtc.state.gov).

Offerors must submit questions concerning this solicitation via email on Attachment B, Pre-Proposal Inquiry Form, to the Contracting Officer at the address below:

Solicitation No: 80KSC018R0032

Project Title: Mobile Launcher 2 (ML2)

<u>Contact:</u> Timothy Freeland, Contracting Officer <u>E-mail:</u> KSC-ML-2-info@mail.nasa.gov **2.4 Date, Time, and Place of Submission.** All offerors' Organizational Conflicts of Interest (OCI) Assessments and any associated Mitigation Plans are due no later than 3:00PM EDT on July 16, 2018. All Phase 1 Proposals are due no later than 3:00PM EDT on July 30, 2018.

Acquisition mailing address:

Mobile Launcher 2 (ML2) Mail Code: ML2-SEB ATTN Timothy Freeland, Contracting Officer Kennedy Space Center, FL 32899

Offerors may deliver hand-carried submissions to the Central Industry Assistance Office (CIAO):

Central Industry Assistance Office (CIAO) 7110 N. Courtenay Parkway Merritt Island, FL 32953

Offerors who intend to hand-carry their submissions to the CIAO must coordinate delivery with the Contracting Officer a minimum of 24 hours in advance. Late receipt of Phase 1 proposals will be governed by FAR 15.208, Submission, Modification, Revision, and Withdrawal of Proposals.

2.5 Proposal Expenses and Pre-Contract Costs. The Government will not pay costs incurred in preparation and submission of Phase 1 proposals. However, at its sole discretion, the Government may pay a stipend for preparation and submission of Phase 2 proposals to Phase 2 offerors which are not awarded the contract. The Government will set forth the availability and amount of any stipend in the Phase 2 RFP.

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3.0 SOLICITATION PROVISIONS

3.1 FAR 52.252-1 Solicitation Provisions Incorporated By Reference (Feb 1998). This solicitation incorporates one or more solicitation provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer. Also, the full text of a solicitation provision may be accessed electronically at this/these address(es):

https://acquisition.gov
http://farsite.hill.af.mil/

3.1.1 Provisions Incorporated by Reference.

FAR 52.204-7 SYSTEM FOR AWARD MANAGEMENT (OCT 2016)

FAR 52.204-16 COMMERCIAL AND GOVERNMENT ENTITY CODE REPORTING (JUL 2016)

FAR 52.204-18 COMMERCIAL AND GOVERNMENT ENTITY CODE MAINTENANCE (JUL 2016)

FAR 52.232-18 -- AVAILABILITY OF FUNDS (APR 1984)

3.2 Solicitation Provisions Incorporated by Full Text.

3.2.1 FAR 52.211-1 Availability Of Specifications Listed In The GSA Index Of Federal Specifications, Standards And Commercial Item Descriptions, FPMR Part 101-29. (Aug 1998)

(a) The GSA Index of Federal Specifications, Standards and Commercial Item Descriptions, PMR Part 101-29, and copies of specifications, standards, and commercial item descriptions cited in this solicitation may be obtained for a fee by submitting a request to -

GSA Federal Supply Service Specifications Section, Suite 8100 470 East L'Enfant Plaza, SW Washington, DC 20407 Telephone (202) 619-8925 Facsimile (202) 619-8978.

(b) If the General Services Administration, Department of Agriculture, or Department of Veterans Affairs issued this solicitation, a single copy of specifications, standards, and commercial item descriptions cited in this solicitation may be obtained free of charge by submitting a request to the addressee in paragraph (a) of this provision. Additional copies will be issued for a fee.

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3.2.2 FAR 52.211-3 Availability Of Specifications Not Listed In The GSA Index Of Federal Specifications, Standards And Commercial Item Descriptions. (Jun 1988)

The specifications cited in this solicitation may be obtained from: https://www.fbo.gov.

3.2.3 FAR 52.233-2 Service Of Protest (Sep 2006)

(a) Protests, as defined in section 33.101 of the Federal Acquisition Regulation, that are filed directly with an agency, and copies of any protests that are filed with the Government Accountability Office (GAO), shall be served on the Contracting Officer (addressed as follows) by obtaining written and dated acknowledgment of receipt from

Name: Timothy Freeland Phone: 321-867-5131

Email: ksc-ml-2-info@mail.nasa.gov Address: Timothy Freeland / ML2-SEB NASA, John F. Kennedy Space Center Kennedy Space Center, FL 32899

(b) The copy of any protest shall be received in the office designated above within one day of filing a protest with the GAO.

3.2.4 52.236-25 -- Requirements for Registration of Designers. (June 2003)

Architects or engineers registered to practice in the particular professional field involved in a State, the District of Columbia, or an outlying area of the United States shall prepare or review and approve the design of architectural, structural, mechanical, electrical, civil, or other engineering features of the work.

3.2.5 NFS 1852.233-70 Protests To NASA (Dec 2015)

- (a) In lieu of a protest to the United States Government Accountability Office (GAO), bidders or offerors may submit a protest under 48 CFR Part 33 (FAR Part 33) directly to the Contracting Officer for consideration by the Agency. Alternatively, bidders or offerors may request an independent review by the Assistant Administrator for Procurement, who will serve as or designate the official responsible for conducting an independent review. Such reviews are separate and distinct from the Ombudsman Program described at 1815.7001.
- (b) Bidders or offerors shall specify whether they are submitting a protest to the Contracting Officer or requesting an independent review by the Assistant Administrator for Procurement.
- (c) Protests to the Contracting Officer shall be submitted to the address or email specified in the solicitation (email is an acceptable means for submitting a protest to the Contracting Officer). Alternatively, requests for independent review by the Assistant Administrator for Procurement shall be addressed to the Assistant Administrator for Procurement, NASA Headquarters, Washington, D.C. 20546-0001.

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4.0 PHASE 1 INSTRUCTIONS

- **4.1 Eligibility.** The offeror must demonstrate its eligibility for award by addressing the items described in 4.1.1 through 4.2.6 below.
- **4.1.1 Bonding.** The offeror must demonstrate its ability to provide required Payment and Performance bonding for a project in excess of \$300M in accordance with FAR 28.102, Performance and Payment Bonds and Alternative Payment Protections for Construction Contracts.
- **4.1.2 Joint Ventures.** Joint ventures must submit copies of the joint venture agreement, signed by all parties to the agreement.
- **4.1.3 Representations and Certifications.** The offeror must submit Attachment C, Representations and Certifications.
- **4.2 Notice of Possible OCIs.** The Contracting Officer has determined that this acquisition may give rise to OCIs. Accordingly, prospective offerors must review and pay due attention to FAR Subpart 9.5—Organizational and Consultant Conflicts of Interest. The Contracting Officer will not award a contract to an offeror unless the Government determines that the offeror has resolved, to the Government's satisfaction, any existing or potential OCI.
- **4.2.1 Description of Potential Conflict.** OCIs associated with the ML2 contract include impaired objectivity, unequal access to information, and biased ground rules. In particular, work under the ML2 contract by prime contractors under the contracts in Section 4.2.2 may give rise to one or more of the examples described in Attachment D, Organizational Conflict of Interest (OCI). These OCIs may also exist at the subcontractor level depending on the scope of services performed by subcontractors under these contracts.
- **4.2.2 Contracts.** The Contracting Officer is aware of the following NASA contracts that may present OCI concerns: KSC Institutional Services Contract (ISC) (or successor contract); Kennedy Exploration Ground Systems Program Support II (KLXSII) contract (or successor contract); KSC Safety and Mission Assurance Support Services III contract (SMASSIII); KSC Test and Operations Support Contract (TOSC); and development, production, or engineering contracts at other NASA Centers that support NASA's Exploration Systems Development Programs—SLS, EGS, and Orion. This list is not exhaustive; there may be other Government contracts that present OCI concerns.
- 4.2.3 OCI Assessment. Each offeror must assess and identify whether there is an OCI involving contracts or subcontracts with NASA or other organizations for each firm that is part of its team. The assessment must identify all efforts performed or to be performed under NASA's Exploration Systems Development, including programs; development, production, engineering, or support service contracts; and engineering or support service contracts at KSC or other NASA centers. For each contract, the offeror (and its subcontractors) must identify the contract name, number, and type; period of performance; Contracting Officer's name and contact information; any OCI clause included in the referenced contract; any specific prohibition delineated or directed by the referenced contract; the types of services performed; and a description of conflicts or potential conflicts as assessed by the offeror. The offeror must address mitigations in its OCI Mitigation Plan.

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- **4.2.4 OCI Mitigation Plan Requirements.** The offeror must provide an OCI Mitigation Plan as part of its Phase 1 proposal, if the results of its assessment indicate a potential OCI. This plan must address the offeror's process for recognizing, evaluating, and resolving conflicts or potential conflicts of interest throughout the design and construction of ML2. The plan must also include the offeror's (and any subcontractor's) specific mitigation of any existing conflicts of interest identified as part of its OCI assessment. The plan, if approved by the Contracting Officer, will be included in any resulting contract.
- **4.2.5 Submission.** The offeror must submit its OCI Assessment and any OCI Mitigation Plan by 3:00PM EDT on July 16, 2018. This submission must meet the following additional requirements: (a) the offeror must submit an original and two copies; (b) the offeror must label the original; (c) the offeror must include an electronic version of the entire submission in searchable PDF format on a CD- or DVD-ROM.
- **4.2.6 Representation.** By submission of its offer, the offeror represents, to the best of its knowledge and belief, that there are no relevant facts that could give rise to an OCI, as defined in FAR Part 2, or the offeror has disclosed all relevant information regarding any actual or potential conflicts of interest. If the successful offeror was aware, or should have been aware, of an actual or potential OCI before award of this contract and failed to fully disclose that conflict to the Contracting Officer, the Government may terminate the contract for default.
- **4.2.7 Waiver.** The agency reserves the right to waive the requirements of FAR subpart 9.5, in accordance with FAR 9.503.

4.3 Phase 1 Proposal Instructions

- **4.3.1 Number of Copies.** The offeror must submit an original and four hardcopies of its proposal for Phase 1. The offeror must label the original as such. The offeror must also include an electronic version of the entire submission in searchable PDF format on a CD- or DVD-ROM.
- **4.3.2 Text.** Proposals are limited to no more than 55 total pages. A page is defined as one side of a sheet, 8 1/2" x 11", with at least one inch margins on all sides, using minimum 12-point type. Foldouts count as an equivalent number of 8 1/2" x 11" pages. The metric standard format most closely approximating the described standard 8 1/2" x 11" size may also be used.

Title pages, table of contents, information provided via attachments B through G, OCI assessment/plan, and any joint venture agreements are excluded from the 55-page count limitation. Information that can be construed as belonging in one of the page limited proposal section that is provided as part of a non-page limited section of the proposal will be so construed and counted against the page limitation

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4.3.3 Contents of Phase 1 Proposal

The offeror's Phase 1 Proposal must address the three Phase 1 Evaluation Factors:

Factor 1: REPP

- a) Relevant Projects
- b) Past Performance
- c) Safety Past Performance

Factor 2: Technical Approach

Factor 3: Specialized Experience

4.3.4 Factor 1: Relevant Experience and Past Performance

4.3.4.1 Relevant Projects. The Government will examine the offeror's experience for breadth and depth of relevant work performed in design-build, design, or construction projects of similar size, content, and complexity to the ML2, as stated in this solicitation.

Offerors may submit up to six projects that demonstrate recent, relevant experience on projects by completing Attachment E, Relevant Projects, for each submitted project. If the offeror is not a single design-build entity, at least one project must be from the proposed designer and at least one project must be from the proposed builder. If the offeror is a joint venture, the offeror must provide for each firm that the joint venture comprises, information demonstrating experience relevant to its role on the project. If any firm has multiple functions or divisions, limit the project examples to those performed by the division, unit, or team member included in the offer. If projects presented are design-build, the offeror should identify the design/construction firms utilized, if not self-performed.

Each project that the offeror submits must be completed or in progress within the past seven years from the date of RFQ release. If the offeror submits a project that has not been completed, the offeror must explain which elements of the work are not complete and the completion percentage.

Relevant projects must be similar in size (i.e., >\$100M constructed value), content, and complexity to the ML2. Examples may include, but are not limited to:

- (1) Ships, submarines
- (2) Oil rigs
- (3) Chemical/Pharmaceutical plants
- (4) Oil Refineries
- (5) Dynamic or Complex Steel structures

Relevant projects must have at least one of the following characteristics:

- (1) Design-build construction involving multiple space constrained systems, complex mechanical and electrical systems, and/or heavily integrated systems.
- (2) Design and build of large, complex structures that are exposed to extreme environments, such as dynamic loading, highly corrosive environments, and/or high heat environments.
- (3) Fabrication, installation, testing, and commissioning of complex, multi-discipline systems.

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4.3.4.2 Past Performance. Offerors must provide Attachment F, Past Performance Questionnaire (PPQ) to the owner/customer point of contact (POC) for each of the projects submitted under 4.3.4.1, Relevant Projects. Offerors are responsible for ensuring that POCs submit the completed questionnaires directly to the Contracting Officer for arrival no later than the deadline date for receipt of Phase 1 proposals. The Government will not consider any PPQs that are submitted by the offeror instead of the POC.

POCs must submit their completed PPQs directly to the Contracting Officer via mail or email:

Timothy Freeland, Contracting Officer Mail Code: ML2-SEB Kennedy Space Center, FL 32899 KSC-ML-2-info@mail.nasa.gov

In addition, offerors must provide a copy of the first page of each PPQ sent to POCs in their Phase 1 Proposal. The Government may contact POCs, but is under no obligation to do so.

If a completed Contractor Performance Assessment Reporting System (CPARS) evaluation is available for a project submitted for Factor 1, the offeror should also submit it. However, a CPARS evaluation is not a substitute for a completed PPQ. Any CPARS submitted will not count towards the overall page count.

4.3.4.3 Safety Past Performance. Offerors must submit Attachment G, Safety Past Performance, as part of the REPP section of their Phase 1 Proposal.

4.3.5 Factor 2: Technical Approach.

The offeror must submit its proposed approach to the ML2 project, which must include but not be limited to:

The offeror's proposed organizational structure:

- (1) Describe roles and responsibilities of key positions. Identify and describe the Design-Build Project Manager and Designer of Record (DOR) responsibilities in the overall design-build process, construction, and commissioning phases.
- (2) Describe the proposed decision-making processes for technical, schedule, and financial aspects of the design and construction. Identify the decision-making authorities and delegations of authority within the team.
- (3) Describe the resources of the proposed team. For teaming arrangements or joint ventures, include a clear description of each company's roles and responsibilities on the project. Describe any contractual arrangements that the offeror has established among those firms.

The offeror's proposed management and integration plan:

(1) Describe the process for managing technical integration across all phases of the work. Provide the offeror's approach to integration between; the designer-builder-Government, subsystems, and the design and construction phases of the work. Describe the process for ensuring that communication is effective throughout the

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- organization, management through field personnel.
- (2) Describe the offeror's proposed quality control management structure. Describe quality control processes including a description of corporate systems and capabilities to maintain quality control of the design and construction.
- (3) Describe the proposed configuration management system and the approach to maintaining integrity of the design, change control and revision management, and verification of design expectations.

The offeror must provide a description of its corporate EVMS, including, but not limited to, the software packages used, other tools to enhance utilization of this software, and the associated business processes that the project team uses to effectively implement EVM. If available, the offeror should provide a copy of any Government agency approval or certification of its EVMS in compliance with Electronic Industries Alliance (EIA) Standard 748 (EIA-748). If the offeror's EVMS has not been previously approved or certified, the offeror must submit a plan for compliance with EIA-748.

Cost-reimbursement type contracts require the offeror and cost-type subcontractors to have an accounting system that is adequate for determining costs applicable to the contract or order in accordance with FAR 16.301-3(a)(3). The offeror must provide Defense Contract Audit Agency (DCAA), Defense Contract Management Agency (DCMA), NASA, or other Government agency audits, agreements, audit number and date completed for Accounting System, Cost Accounting Standards (CAS) Disclosure Statements, and EVM System. If the offeror or subcontractor is using a third-party accounting firm to certify its accounting system, the offeror must provide a copy of the certification with supporting documentation.

Provide the name, address, phone number, and email for the cognizant DCAA, DCMA, NASA or other Government agency with cognizance over the offeror's rates, factors and systems audits. The Government will use this information to expedite rates and factors evaluations, pre-award accounting system audits, and financial capability evaluations.

- **4.3.6 Factor 3: Specialized Experience.** For each project submitted for Factor 1, REPP, the offeror must describe the following specialized experience for the performing entity. This narrative should be separate from Attachment E and will count towards the total page count requirements. The offeror must address the following, as applicable:
 - (1) Describe the applicable integrated design-build, design, or construction processes and any technology solutions used;
 - (2) Describe in detail, from award through commissioning and closeout, the business practices that the offeror used to foster a highly collaborative and successful project environment with customers. Describe change authority responsibilities and any delegations of change authority within the teams;
 - (3) Provide a detailed description of the design verification and quality-control processes, including requirements and configuration control, design review format and comment incorporation, timely management of requests for information, any use of 3D modeling (or building information modeling) to integrate multiple subsystems, constructability review approach utilized which may include involvement of the builder during designs, field coordination of subcontractors for installation of complex and diverse systems, and physical installation conflict resolution;
 - (4) Include corporate methodology and analysis tools used to drive and/or verify design

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- requirements (e.g., structural/dynamic, fluids, thermal);
- (5) Describe any scheduling system(s), methods and/or monitoring tool(s) used for integrated forward planning, sequencing of work, critical path monitoring, resource loading capabilities and integration with other business systems;
- (6) Describe the technical monitoring and change management within the scheduling system and how the offeror used the system to effectively maintain integration of multiple systems and monitor earned value;
- (7) Describe how it used EVMS or, if not used, the tools or techniques for effectively managing cost and schedule;
- (8) Describe how requirements were captured and integrated between multiple subsystems, both internal and external (e.g., GFE)

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5.0 SELECTION PROCESS AND PHASE 1 EVALUATION CRITERIA

- Phase 1 Selection Process. This section identifies the process by which the Government will evaluate proposals. The Government will reveal the number and identities of offerors only to Government employees involved in the evaluation and selection process. The evaluation process consists of five parts: (1) Compliance Review; (2) Award Eligibility Review, including OCI; (3) Relevant Experience and Past Performance Evaluation; (4) Technical Approach Evaluation; and (5) Specialized Experience Evaluation.
- 5.2 Compliance Review. The Government will not complete the initial evaluation of any proposal when it is determined that the proposal is unacceptable because it does not represent a reasonable initial effort to address the essential requirements of the RFQ or clearly demonstrates the offeror does not understand the requirements or it contains major deficiencies or omissions which discussions with the offeror could not reasonably be expected to cure. The Contracting Officer will document the rationale for discontinuing the initial evaluation of a proposal in accordance with this section. The Government will not review proposal pages that exceed the page count limitation or are otherwise not compliant with Section 4, and will notify the offerors accordingly.
- **5.3 Award Eligibility Review.** This is an initial check for determining an offeror's eligibility for award. This check will include the following items:
 - A. **Equal Employment Opportunity Compliance and VETS 4212 Compliance.** The Government will review the Office of Federal Contract Compliance Programs' National Preaward Registry at http://www.dol-esa.gov/preaward/ and verify that the offeror is listed as being Equal Employment Opportunity (EEO) compliant. In the event an offeror is not listed, the Government will initiate an EEO compliance review.
 - B. **System for Award Management Verification.** The Government will verify that the offeror has registered in the SAM database (see FAR 4.11). FAR 4.1103 Procedures will govern unregistered offerors.
 - C. **Representations and Certifications.** The Government will review the completed representations and certifications of the offeror (Attachment C and SAM) to determine if there is anything that may preclude award of a contract to the offeror.
 - D. **Bonding.** The Government will determine whether the offeror has sufficiently demonstrated that it has the capability of providing required payment and performance bonding for the ML2 project.
 - E. **Joint Venture.** The Government will review the agreement to ensure the joint venture is properly formed.
 - F. **OCI.** The Government will review the offeror's OCI Assessment and any proposed OCI Mitigation Plan. The Government may communicate with any offeror at any time during Phase 1 concerning OCI issues. The Government, in its sole discretion, will determine whether, based on its analysis or that provided by the offeror, the offeror has an OCI that would render it ineligible for ML2 award. If the offeror's proposed resolution of an OCI is unacceptable to the Government, the Contracting Officer will permit the offeror to respond with a revised OCI Mitigation Plan. Should the Contracting Officer decide that the revised

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OCI Mitigation Plan is unacceptable, that offeror will not be eligible to participate in Phase 2 of this acquisition. If either the submitted OCI Mitigation Plan or the revision thereto is acceptable, the offeror will be eligible to participate in Phase 2 if selected as one of the most highly qualified offerors to participate in Phase 2. To the extent that execution of a Mitigation Plan for ML2 requires additional action (e.g., modifying an existing OCI Mitigation Plan on another contract), it is the offeror's responsibility to initiate and implement such action and, until the offeror completes such action, the offeror will remain ineligible for ML2 award, regardless of its Phase 2 eligibility status. Communications that occur regarding the OCI Mitigation Plan or Assessment concern matters of eligibility and do not constitute discussions.

5.4 Evaluation Procedures.

Source Evaluation Board (SEB). The Government will establish the SEB to conduct the evaluation of proposals received in response to this solicitation. The SEB will base its evaluation on the content of the proposal. For past performance the SEB may also consider information obtained from other sources.

Evaluation. The SEB will evaluate proposals for each evaluation factor and assign a rating as described in sections 5.5 and 5.8. The Contracting Officer, with the concurrence of the SSA, will select no more than five of the most highly qualified offerors to advance to Phase 2.

Need for Discussions – Phase 1. Offerors should put forth their best efforts for their Phase 1 proposals, and furnish all information clearly to allow the SEB to determine its qualifications. The Government intends to determine the most highly qualified offerors on the basis of the initial proposals, without discussions. The Government reserves the right to conduct communications with offerors in accordance with FAR 15.306(b), if the Contracting Officer determines that such communications are necessary or are otherwise in the Government's best interest.

5.5 Factor 1: REPP Evaluation. The REPP evaluation is an assessment of the Government's confidence in the offeror's ability to perform the ML2 design-build project requirements. The SEB will conduct the REPP evaluation in accordance with FAR 15.305(a)2(2) and NFS 1815.305(a)(2). The SEB will evaluate the extent of recent, relevant experience of the offeror. If the offeror is not performing the design and/or build functions, the SEB will also consider in its evaluation the recent and relevant experience of the proposed subcontractors performing the work. The SEB will evaluate the offeror's recent, relevant experience and past performance based on its similarity in size, content, and complexity to the ML2 design-build project. The SEB will also evaluate the offeror's technical, schedule, and cost performance, based on the PPQ responses and other sources. The SEB will evaluate more favorably projects with a constructed value over \$200M.

The SEB may supplement the information contained in the proposal with information obtained from Government organizations and personnel, commercial sources, and public information sources. The Government will evaluate the submitted safety information along with data obtained from other sources (e.g., OSHA) as compared to industry standards.

The SEB will evaluate more favorably recent and relevant design-build projects, projects that demonstrate a highly collaborative and successful project environment, and where the offeror has previously worked successfully with its proposed teammates.

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For each offeror, the SEB will assign one of the following confidence ratings in accordance with NFS 1815.305(a)(2), based on criteria described above.

Very High Level of Confidence

The offeror's relevant past performance is of exceptional merit and is very highly pertinent to this acquisition, indicates exemplary performance in a timely, efficient, and economical manner and very minor (if any) problems with no adverse effect on overall performance. Based on the offeror's performance record, there is a very high level of confidence that the offeror will successfully perform the required effort.

High Level of Confidence

The offeror's relevant past performance is highly pertinent to this acquisition; demonstrating very effective performance that would be fully responsive to contract requirements. Offeror's past performance indicates that contract requirements were accomplished in a timely, efficient, and economical manner for the most part, with only minor problems that had little identifiable effect on overall performance. Based on the offeror's performance record, there is a high level of confidence the offeror will successfully perform the required effort.

Moderate Level of Confidence

The offeror's relevant past performance is pertinent to this acquisition, and it demonstrates effective performance. Performance was fully responsive to contract requirements; there may have been reportable problems, but with little identifiable effect on overall performance. Based on the offeror's performance record, there is a moderate level of confidence the offeror will successfully perform the required effort.

Low Level of Confidence

The offeror's relevant past performance is at least somewhat pertinent to this acquisition, and it meets or slightly exceeds minimum acceptable standards. Offeror achieved adequate results; there may have been reportable problems with identifiable, but not substantial, effects on overall performance. Based on the offeror's performance record, there is a low level of confidence the offeror will successfully perform the required effort. Changes to the offeror's existing processes may be necessary in order to achieve contract requirements.

Very Low Level of Confidence

The offeror's relevant past performance does not meet minimum acceptable standards in one or more areas; remedial action was required in one or more areas. Performance problems occurred in one or more areas which, adversely affected overall performance. Based on the offeror's performance record, there is a very low level of confidence the offeror will successfully perform the required effort.

Neutral

In the case of an offeror without a record of relevant past performance or for whom information on past performance is not available, the offeror may not be evaluated favorably or unfavorably on past performance (see FAR 15.305(a) (2) (ii) and (iv)).

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5.6 Factor 2: Technical Approach Evaluation. The SEB will evaluate the strengths, weaknesses, and any deficiencies in the proposed technical approach. The SEB will evaluate the offeror's understanding of the design-build process and the capability to execute the project.

The SEB will evaluate the overall organization, including key firms, delineation of roles and responsibilities between the Design-Builder Project Manager and the DOR, decision authority among the team members, and the proposed management structure to execute the design-build scope of work.

The SEB will evaluate more favorably the demonstration of a cohesive team that exhibits high levels of collaboration between the numerous design engineering disciplines, construction trades, and the Government throughout the entire project cycle from award through commissioning and closeout. The SEB will evaluate the offeror's quality control management structure and processes proposed to be used throughout the entire design-build process. The SEB will evaluate the offeror's proposed configuration management system for capturing and documenting changes and the required updates to the official documentation files (e.g., drawings, specifications, etc.) for ensuring timely dissemination to the entire project team (i.e., Government, designer, builder, etc.).

The SEB will evaluate the offeror's proposed EVMS along with any other supporting tools and processes it may utilize which demonstrate a comprehensive understanding and how to successfully apply EVM on this ML2 project. The SEB will evaluate how the offeror will apply EVM on this project to internally manage cost and schedule performance data and to externally report that data to Government.

The SEB will review whether the offeror and subcontractors have a Government agency or third-party certified Accounting System, approved CAS Disclosure Statement, and certified EVM System.

5.7 Factor 3: Specialized Experience Evaluation. The SEB will evaluate the offeror's specialized experience as demonstrated on projects submitted for Factor 1. The SEB may, at its discretion, verify the specialized experience information by contacting the POC on the PPQ or other independent sources.

The SEB will evaluate the following:

- a) The effectiveness of the offeror's proven design-build, design, or construction processes and technical approaches for integrating multiple, complex subsystems.
- b) The effectiveness of the offeror's demonstrated ability to work collaboratively with customers throughout the entire project cycle (i.e., from award through commissioning and closeout).
- c) The effectiveness of the offeror's ability to control project schedule and change authority for the design-build team.
- d) The effectiveness of the offeror's process for design verification and quality control, how the offeror manages requirements and configuration control and how 3D modeling is used to integrate multiple complex subsystems within the design.
- e) The effectiveness of the offeror's ability to involve the builder during the design phase.
- f) The effectiveness of the offeror's existing methodology and use of analysis tools to drive and verify design requirements.

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- g) The offeror's scheduling system description for task planning and forward monitoring, change management approach and critical path monitoring, resource loading capabilities and effectively manage integration of multiple systems.
- h) How the offeror's scheduling system is used to monitor earned value and integrate with other business systems.
- i) The effectiveness of the offeror's ability to use EVMS or other tools to effectively manage cost and schedule.
- The effectiveness of the offeror's ability during construction to, coordinate multiple trades and sequence work during fabrication and installation of systems when physical space and resource conflicts are present, maintain a high level of productivity, manage cost and schedule, respond to request for information and change orders in a timely manner.
- k) The effectiveness of the offeror's ability to integrate requirements across multiple subsystems internal to the offeror's design and between external interfaces directed by the customer.

The SEB will place greater weight during evaluation on items b, c, d, e, and k.

Adjectival Ratings for Factors 2 and 3. For each offeror, the SEB will assign a single adjectival rating for each factor based on its evaluation of 5.6, Technical Approach and 5.7, Specialized Experience in accordance with NFS 1815.305(a)(3).

Excellent

A comprehensive and thorough proposal of exceptional merit with one or more significant strengths. No deficiency or significant weakness exists.

Very Good

A proposal having no deficiency and which demonstrates over-all competence. One or more significant strengths have been found, and strengths outbalance any weaknesses that exist.

Good

A proposal having no deficiency and which shows a reasonably sound response. There may be strengths or weaknesses, or both. As a whole, weaknesses not off-set by strengths do not significantly detract from the offeror's response.

Fair

A proposal having no deficiency and which has one or more weaknesses. Weaknesses outbalance any strengths.

Poor

A proposal that has one or more deficiencies or significant weaknesses that demonstrate a lack of overall competence or would require a major proposal revision to correct.

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The SEB will utilize the following definitions for deficiency, weakness, significant weakness, strength, and significant strength:

Deficiency

A material failure of a proposal to meet a Government requirement or a combination of significant weaknesses in a proposal that increases the risk of unsuccessful contract performance to an unacceptable level.

Weakness

A flaw in the proposal that increases the risk of unsuccessful contract performance.

Significant Weakness

A flaw in the proposal that appreciably increases the risk of unsuccessful contract performance.

Strength

An aspect of the proposal that will have some positive impact on the successful performance of the contract.

Significant Strength

Some aspect of the proposal that greatly enhances the potential for successful contract performance.

- **Relative Importance of Phase 1 Evaluation Factors.** Specialized Experience is more important than REPP, which is more important than the Technical Approach.
- **5.10 Relative Importance of Phase 2 Evaluation Factors.** All evaluations factors other than cost, when combined, will be significantly more important than cost.
- **5.11 Advancement to Phase 2.** The Contracting Officer, with the SSA's concurrence, will select a maximum of five offerors to advance to Phase 2 and to submit Phase 2 proposals. Advancement of offerors to Phase 2 does not imply, obligate, or commit the Government in any manner.

If an offeror's proposal includes the use of teaming arrangements, the offeror may not change team members after the deadline for Phase 1 proposal submission without the Contracting Officer's approval. The Contracting Officer may grant approval to substitute team members only if, based on the Phase 1 evaluation factors, the Contracting Officer determines that the proposed substitute team member possesses qualifications equal to or better than those of the team member in the offeror's Phase 1 that the offeror proposes to replace. In the absence of such a determination and approval by the Contracting Officer, and notwithstanding an offeror's selection for Phase 2 consideration, an offeror that changes team members after the deadline for Phase 1's proposal shall not be eligible for further consideration in Phase 2. After award, the offeror may not change teaming arrangements without the Contracting Officer's approval. The Contracting Officer will not give such approval unless the Contracting Officer considers the proposed substitute to be equal to or better than the originally proposed team member in all respects and that the substitution is in the best interests of the Government.

5.12 Notification and Debriefing of Unsuccessful Offerors. The Contracting Officer will notify unsuccessful offerors in accordance with FAR Subpart 15.5. An unsuccessful offeror may request

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a debriefing by submitting a written request to the Contracting Officer within three days after receipt of the notice excluding the offeror.

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ATTACHMENT A – SUBSYSTEM LIST

I. FLUIDS AND GASES

- a) **Breathing Air (BAIR) Subsystem:** The BAIR subsystem provides breathing air to other subsystems and personnel in support of general processing and integration of SLS/Orion. BAIR is provided to ML2 at 300 psig from external Pad B infrastructure.
- b) **Cold Gaseous Helium (CGHe) Subsystem:** The CGHe subsystem receives chilled gaseous helium from an external Pad B source and conveys it on the ML2 to perform pre-launch chill-down of the EUS RL-10 engines via the EUS umbilical.
- c) Environmental Control Subsystem (ECS): The ECS provides conditioned purge air from external Pad B infrastructure to Orion and SLS. ECS also provides conditioned GN2 from external Pad B infrastructure during Cryogenic propellant flow to SM, EUS, and CS. Purge Air is also provided during ML2 rollout via portable ECS units temporarily staged on the ML2 deck. During SLS processing in the VAB, the ML2 will receive ECS conditioned air from the fixed VAB ECS infrastructure.
- d) **Gaseous Helium (GHe) Subsystem:** The GHe subsystem provides GHe to other subsystems in support of general processing and integration of SLS/Orion. GHe is provided to ML2 at 6000 psig from external Pad B infrastructure. The GHe subsystem provides contingency service/de-service of the Orion CM/SM GHe tanks.
- e) **Gaseous Nitrogen (GN2) Subsystem:** The GN2 subsystem provides GN2 to other subsystems in support of general processing and integration of SLS/Orion. GN2 is provided to ML2 at 6000 psig from external Pad B infrastructure. The GN2 subsystem provides contingency service/deservice of the Orion CM/SM Environmental Control and Life Support System (ECLSS) tanks.
- f) **Gaseous Oxygen (GO2) Subsystem:** The GO2 subsystem provides GO2 to other subsystems in support of general processing and integration of SLS/Orion. GO2 is provided to ML2 at 6000 psig from external Pad B infrastructure. The GO2 subsystem provides contingency service/deservice of the Orion CM/SM ECLSS tanks.
- g) **Ground Cooling System (GCS) Subsystem:** The GCS provides ground cooling (heat rejection) to the Orion CM/SM. The GCS is an R134a Freon based system, all of which will be contained on the ML2 tower (as opposed to external source as with ML1).
- h) **Ground Main Propulsion System (GMPS):** The GMPS provides control of the GHe and GN2 subsystems for testing, check out, valve actuation, bottle/tank pressurization, and vehicle propulsion system purges. The GMPS also provides ground power, control, and monitoring functionality for end items within the Main Propulsion System (MPS) subsystem and engine systems for both the Core Stage and EUS.
- i) **Hydraulic Arms and Accessories Service Pressure (HAASP) Subsystem:** The HAASP subsystem provides hydraulic servicing to the launch accessories.
- j) Hypergolic (HYPER) Subsystem: The HYPER subsystem provides propellant contingency deservicing for Orion Crew Module/Service Module (CM/SM) hypergolic fuels and oxidizers at Pad 39B. For ML2, the scope of work is envisioned to be mostly piping and valves; the active equipment for de-servicing will be portable equipment (outside scope of ML2).
- k) **Liquid Hydrogen (LH2) Subsystem:** The LH2 subsystem provides LH2 propellant fill and drain for the SLS/Core Stage and EUS, and hydrogen boil-off gas venting. LH2 is supplied from external Pad B infrastructure.
- l) **Liquid Oxygen (LO2) Subsystem:** The LO2 subsystem provides LO2 propellant fill and drain for the SLS/Core Stage and EUS with LO2 propellant. LO2 is supplied from external Pad B infrastructure.

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ATTACHMENT A - SUBSYSTEM LIST

m) **TVC Hydraulic Servicing Subsystem (THSS):** The THSS provides hydraulic servicing to the SLS booster TVC system and the SLS/Core Stage Hydraulic system.

II. MECHANICAL AND LAUNCH ACCESSORIES

- a) **Aft Skirt Electrical Umbilical (ASEU) Subsystem:** The ASEU subsystem is a base-mounted, T-0 umbilical that accommodates the necessary power and data signals to the Booster Aft Skirt during integrated vehicle processing and launch operations. There is one ASEU for each Booster.
- b) **Aft Skirt Purge Umbilical (ASPU) Subsystem:** The ASPU subsystem is a T-0 interface that accommodates a GN2 purge to the SLS Booster Aft Skirt during integrated vehicle processing and launch operations. There is one ASPU per Booster.
- c) Core Stage Forward Skirt Umbilical (CSFSU) Subsystem: The CSFSU subsystem is a single ML tower-mounted T-0 umbilical that provides necessary commodities (ECS, GN2) to the Core Stage Forward Skirt during integrated vehicle processing, and launch operations.
- d) **Core Stage Inter-Tank Umbilical (CSITU) Subsystem:** The CSITU subsystem is a single ML tower-mounted T-0 umbilical that supplies commodities (e.g., ECS, GH2 Vent, GN2) and electrical/data connections to the Core Stage Inter-Tank during integrated SLS vehicle processing and launch operations.
- e) **Crew Access Arm (CAA) Subsystem:** The CAA subsystem provides for personnel ingress/egress access and equipment to/from the Orion CM during integrated vehicle processing and launch operations. The CAA also provides contingency access to the Orion SM for deservicing of hypergols and servicing/de-servicing of GN2 and GO2.
- f) **Emergency Egress Subsystem (EES):** The EES provides ground and flight crew emergency egress capability from the ML2 CAA level to the Launch Pad bunker during launch countdown operations. The EES consists of the CAA, ML2 Pathways, slide-wire baskets, and a bunker. Slide-wire baskets provide egress from the ML2's crew access level and terminate away from the ML2/Launch Vehicle near the Pad bunker. Close coordination and collaboration between the Government and the Contractor will be expected.
- g) **Exploration Upper Stage Umbilical (EUSU) Subsystem:** The EUSU subsystem accommodates necessary commodities (e.g., GH2 vent, LH2/LO2 fill and drain, ECS) to the EUS during integrated vehicle processing, launch operations and T-0 umbilical connection. The EUSU is being designed by the Government and will be provided as GFE to the Contractor. Close coordination and collaboration between the Government and the Contractor will be expected.
- h) **Handling and Access (H&A) Subsystem:** The H&A subsystem provides access required for launch vehicle integration including the Engine Service Platform. The H&A subsystem also provides the hardware to support the lifting and build-up operations associated with the Launch Vehicle components in various facilities. The H&A subsystem will accommodate personnel and equipment to service and de-service the Orion CM/SM. Most of this equipment already exists for ML1 and will be GFE.
- i) **Mobile Launcher Structure (MLS) Subsystem:** The MLS subsystem physically supports the SLS/Orion launch vehicle and Ground Support Systems (GSS)/GSE during stacking, rollout, prelaunch operations, launch, and on-pad aborts. The Contractor must re-design the ML2 structure to provide increased structural margins for future evolution of the SLS.
- j) **Orion Service Module Umbilical (OSMU) Subsystem:** The OSMU subsystem provides necessary commodities (e.g., GCS, ECS, BAIR, data) to/from the Orion SM during integrated vehicle processing, launch operations and provides T-0 umbilical connection.

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ATTACHMENT A - SUBSYSTEM LIST

- k) **Tail Service Mast Umbilical (TSMU) Subsystem:** The TSMU subsystem is a base-mounted, T-0 umbilical that accommodates necessary commodities (LH2/LO2 fill and drain, GHe) to the aft section of the Core Stage during integrated vehicle processing, launch operations and provides T-0 umbilical connection. There are two separate TSMUs one for LO2 and one for LH2.
- 1) **Vehicle Stabilizer (VS) Subsystem:** The VS subsystem provides a single structural ML tower-mounted T-0 interface to the Core Stage that limits and dampens vehicle motion during rollout to the Pad, Pad processing operations, and through launch terminal count.
- m) **Vehicle Support Posts (VSP) Subsystem:** The VSP subsystem provides structural support for the SLS during booster stacking, assembly, transit, and launch on the ML2. The VSP subsystem includes the ML2 posts, spherical bearings, and blast/thermal protection. There are four VSPs per Booster.

III. <u>ELECTRICAL</u>

- a) **Ground Special Power-GSE** (**GSP-G**) **Subsystem:** The GSP-G subsystem provides regulated direct current (DC) power to the BAIR, CMASS, ECS, GCS, GMPS, HGLDS, GN2, GHe, GO2, Hypergols, IOPSS, KGCS, Launch Accessories, LH2, LO2, LRS, RSCS, TCS, and THSS subsystems during vehicle processing, integration, and launch operations. The GSP-G subsystem capability includes battery backup power for all GSE end items requiring backup power service.
- b) **Ground Special Power-Vehicle (GSP-V) Subsystem:** The GSP-V subsystem provides regulated direct current (DC) power to the Core Stage, EUS, Booster, Orion, and other subsystems during vehicle integration and launch operations.
- c) **Hazardous Gas Leak Detection Subsystem (HGLDS):** The HGLDS provides hazardous gas/vapor leak detection for the flight hardware processing locations including monitoring of purged and servicing areas during processing and launch operations. The HGLDS also provides hydrogen leak and fire detection around LH2 and GH2 transport lines, valve skids, and umbilicals during integrated vehicle processing and launch operations.
- d) Launch Release Subsystem (LRS): The LRS receives arm and fire commands from the vehicle, monitors umbilical mate status, and provides release signals and indications to ground subsystems that require confirmation that T-0 has occurred. LRS also controls and monitors the Launch Abort System (LAS) and ignition safe and arm devices, provides power and control for T-0 umbilicals' release collets, and provides ignition signals for Hydrogen Burn-Off Igniters.
- e) **Payload Accommodation Subsystem (PAS):** The PAS subsystem provides communication and fluid services to the vehicle payload. The PAS accommodates the installation and removal of mission specific electrical racks and occupancy of mission operations personnel.
- f) Radio Frequency and Telemetry Station (RFTS) Subsystem: The RFTS subsystem provides the test and checkout of the SLS and Orion Radio Frequency (RF) systems prior to rollout to the Pad.
- g) Range Safety Checkout Subsystem (RSCS): The RSCS commands, controls, tests and verifies the Flight Termination System (FTS) of the Integrated Vehicle and prevents inadvertent initiation of the FTS during Integrated Vehicle ground processing.
- h) **Sensor Data Acquisition Subsystem (SDAS):** The SDAS is a widely distributed, stand-alone data acquisition subsystem that supports stacking, rollout, and launch operations. It monitors and records temperature, pressure, flow rate, acoustic, strain, and environmental measurements. The SDAS is specifically designed to support high-speed engineering data gathering as well as local and remote display and data storage.

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ATTACHMENT A – SUBSYSTEM LIST

- i) **Thermal Control Subsystem (TCS):** The TCS monitors temperatures on the launch vehicle and provides power and control to the launch vehicle heaters.
- j) **Weather Instrumentation (WX) Subsystem:** The WX subsystem measures the transient lightning induced environment on the ML2 and the meteorological data within the Pad perimeter.

IV. COMMAND AND CONTROL

a) Kennedy Ground Control Subsystem (KGCS): The KGCS provides industrial control hardware, interface(s), and cabling between specific ML2 GSE subsystems and the LCC. Provides industrial control software to control hardware interfaces.

V. COMMUNICATIONS

- a) **Imaging:** The ML2 provides the infrastructure (camera mounts, enclosure purges, and connectivity) to all imaging platforms (National Television System Committee (NTSC), High Definition, VoIP, and Infrared) used on the ML2.
- b) **Transmission:** The ML2 provides the cable plant (copper and fiber) and transmission equipment for operational network communications within the ML2 and connectivity to external entities. Provides transmission of data for subsystems such as KCCS, SCCS, Voice, and Imagery Services. Utilizes Optical Transport Network (OTN) and Ethernet transport, Ethernet Transmission System (ETXS) as core technology.
- c) Voice: The ML2 provides the infrastructure, distribution, interfaces, and end instruments necessary for Ground Systems operational voice communications (Operational Intercommunication System [OIS]). Provides connectivity and hardware to interface with the administrative paging and emergency/general announcement broadcasts. Provides the connectivity and end instruments necessary for KSC telephone service including traditional, Voice over Internet Protocol (VoIP), and National Electrical Manufacturers Association (NEMA) Class 1 Div. 2 rated telephones in designated areas.

VI. FACILITY SYSTEMS

- a) **60 Hz Power Distribution Subsystem:** The 60 Hz Power Distribution subsystem consists of: hardware, associated controls, and instrumentation for the purposes of distributing electrical power to all equipment on the ML2. The host facility will provide facility power at 13,800V and 480V to ML2.
- b) **Compressed Air Subsystem:** The compressed air (supplied from external sources by host facility) is used for Heating, Ventilation and Air Conditioning (HVAC) system controls, shop air outlets, pneumatic hoists, fire suppression system controls, and other purposes.
- c) **Elevators Subsystem:** The Elevators subsystem provides fixed capability to move personnel and equipment to designated levels.
- d) **Fire Detection Subsystem (FDS):** The FDS provides fire detection and notification capability to comply with National Fire Protection Association (NFPA) standards.
- e) **Fire Suppression Subsystem (FSS):** The FSS provides fire suppression to comply with NFPA standards. Water is supplied from an external source.
- f) **Heating, Ventilation and Air Conditioning (HVAC) Subsystem:** The HVAC subsystem provides temperature/humidity control and ventilation within enclosed areas on the ML2.

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ATTACHMENT A – SUBSYSTEM LIST

- Pressurizes the ML2 interior areas during normal operations and during hazardous operations for launch. Host facility will provide chilled water to ML2.
- g) **Ignition Overpressure and Sound Suppression (IOP/SS) Subsystem:** The IOP/SS subsystem minimizes the effects of the launch induced environment on the launch vehicle, and GSE. The system distributes water, from the Pad 39B source, across the ML2 deck surface and flame hole.
- h) **Kennedy Complex Control System (KCCS):** The KCCS provides central control and monitoring of facility power systems, utility systems, and energy management systems throughout the ML2 to KCCS console in the LCC.
- i) Oxygen Deficiency Monitoring Subsystem (ODMS): The ODMS monitors the atmospheric oxygen (O2) concentration levels in hazardous areas on the ML2.
- j) **Potable Water Subsystem:** The Potable Water subsystem provides potable water to the ML2 for Safety Showers and Eye Wash, restrooms, and other subsystems.
- k) **Septic Wastewater Subsystem:** The Septic Wastewater subsystem collects sanitary wastewater streams from the ML2 and routes them to an interface point with the VAB, Pad or Parksite.

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ATTACHMENT B - PRE-PROPOSAL INQUIRY FORM

Any questions concerning this solicitation must be submitted in writing or by email on Attachment B, Pre-Proposal Inquiry Form, to the contracting office at the address below:

NOTE: Email is the preferred method of communication.

Solicitation Number: 80KSC018R0032

Project Title: Mobile Launcher 2 (ML2)

Mail Code: ML2-SEB ATTN Timothy Freeland

Kennedy Space Center, FL 32899

E-mail: KSC-ML-2-info@mail.nasa.gov

Questions must be submitted on this form in MS Word or searchable PDF (no read only formats). Questions also may be submitted in the body of an e-mail message following this form's format. Late questions or comments will be considered by the Government but may not be answered. Responses to questions will be issued as amendments to the solicitation. The cutoff date and time for receipt of questions July 16, 2018.

Offerors are cautioned that technical activity personnel are not authorized to answer solicitation questions or comments and that any responses from them may not accurately represent the Government's official position.

PLEASE CITE THE REFERENCE NUMBER SUCH AS PAGE NUMBER OF THE SOLICITATION, SPECIFICATIONS, DRAWINGS, ETC., IF APPLICABLE.

1. REFERENCE:		
QUESTION:		
2. REFERENCE:		
QUESTION:		
Submitted by (name):	 	
Company:	 	
E-mail Address:		

ATTACHMENT B – PRE-PROPOSAL INOUIRY FORM
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Continuation of Questions:

ATTACHMENT C – REPRESENTATIONS AND CERTIFICATIONS

52.204-8 -- ANNUAL REPRESENTATIONS AND CERTIFICATIONS (JAN 2018)

(a)

- (1) The North American Industry classification System (NAICS) code for this acquisition is 236210.
- (2) The small business size standard is \$36.5M.
- (3) The small business size standard for a concern which submits an offer in its own name, other than on a construction or service contract, but which proposes to furnish a product which it did not itself manufacture, is 500 employees.

(b)

- (1) If the provision at 52.204-7, System for Award Management, is included in this solicitation, paragraph (d) of this provision applies.
- (2) If the provision at 52.204-7 is not included in this solicitation, and the offeror is currently registered in the System for Award Management (SAM), and has completed the Representations and Certifications section of SAM electronically, the offeror may choose to use paragraph (d) of this provision instead of completing the corresponding individual representations and certification in the solicitation. The offeror shall indicate which option applies by checking one of the following boxes:
 - i. [_] Paragraph (d) applies.
 - ii. [_] Paragraph (d) does not apply and the offeror has completed the individual representations and certifications in the solicitation.

(c)

- (1) The following representations or certifications in SAM are applicable to this solicitation as indicated:
 - i. 52.203-2, Certificate of Independent Price Determination. This provision applies to solicitations when a firm-fixed-price contract or fixed-price contract with economic price adjustment is contemplated, unless—
 - A. The acquisition is to be made under the simplified acquisition procedures in Part 13;
 - B. The solicitation is a request for technical proposals under two-step sealed bidding procedures; or
 - C. The solicitation is for utility services for which rates are set by law or regulation.
 - ii. 52.203-11, Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions. This provision applies to solicitations expected to exceed \$150,000.
 - iii. 52.203-18, Prohibition on Contracting with Entities that Require Certain Internal Confidentiality Agreements or Statements—Representation. This provision applies to all solicitations.
 - iv. 52.204-3, Taxpayer Identification. This provision applies to solicitations that do not include the provision at 52.204-7, System for Award Management.
 - v. 52.204-5, Women-Owned Business (Other Than Small Business). This provision applies to solicitations that—
 - A. Are not set aside for small business concerns;
 - B. Exceed the simplified acquisition threshold; and
 - C. Are for contracts that will be performed in the United States or its outlying areas.
 - vi. 52.209-2, Prohibition on Contracting with Inverted Domestic Corporations— Representation.
 - vii. 52.209-5; Certification Regarding Responsibility Matters. This provision applies to solicitations where the contract value is expected to exceed the simplified acquisition threshold.
 - viii. 52.209-11, Representation by Corporations Regarding Delinquent Tax Liability or a Felony Conviction under any Federal Law. This provision applies to all solicitations.

ATTACHMENT C – REPRESENTATIONS AND CERTIFICATIONS

- ix. 52.214-14, Place of Performance--Sealed Bidding. This provision applies to invitations for bids except those in which the place of performance is specified by the Government.
- x. 52.215-6, Place of Performance. This provision applies to solicitations unless the place of performance is specified by the Government.
- xi. 52.219-1, Small Business Program Representations (Basic & Alternate I). This provision applies to solicitations when the contract will be performed in the United States or its outlying areas.
 - A. The basic provision applies when the solicitations are issued by other than DoD, NASA, and the Coast Guard.
 - B. The provision with its Alternate I applies to solicitations issued by DoD, NASA, or the Coast Guard.
- xii. 52.219-2, Equal Low Bids. This provision applies to solicitations when contracting by sealed bidding and the contract will be performed in the United States or its outlying areas.
- xiii. 52.222-22, Previous Contracts and Compliance Reports. This provision applies to solicitations that include the clause at 52.222-26, Equal Opportunity.
- xiv. 52.222-25, Affirmative Action Compliance. This provision applies to solicitations, other than those for construction, when the solicitation includes the clause at 52.222-26, Equal Opportunity.
- xv. 52.222-38, Compliance with Veterans' Employment Reporting Requirements. This provision applies to solicitations when it is anticipated the contract award will exceed the simplified acquisition threshold and the contract is not for acquisition of commercial items.
- xvi. 52.223-1, Biobased Product Certification. This provision applies to solicitations that require the delivery or specify the use of USDA-designated items; or include the clause at 52.223-2, Affirmative Procurement of Biobased Products Under Service and Construction Contracts.
- xvii. 52.223-4, Recovered Material Certification. This provision applies to solicitations that are for, or specify the use of, EPA- designated items.
- xviii. 52.223-22, Public Disclosure of Greenhouse Gas Emissions and Reduction Goals—Representation. This provision applies to solicitations that include the clause at 52.204-7.
- xix. 52.225-2, Buy American Certificate. This provision applies to solicitations containing the clause at 52.225-1.
- xx. 52.225-4, Buy American--Free Trade Agreements--Israeli Trade Act Certificate. (Basic, Alternates I, II, and III.) This provision applies to solicitations containing the clause at 52.225-3.
 - A. If the acquisition value is less than \$25,000, the basic provision applies.
 - B. If the acquisition value is \$25,000 or more but is less than \$50,000, the provision with its Alternate I applies.
 - C. If the acquisition value is \$50,000 or more but is less than \$80,317, the provision with its Alternate II applies.
 - D. If the acquisition value is \$80,317 or more but is less than \$100,000, the provision with its Alternate III applies.
- xxi. 52.225-6, Trade Agreements Certificate. This provision applies to solicitations containing the clause at 52.225-5.
- xxii. 52.225-20, Prohibition on Conducting Restricted Business Operations in Sudan-Certification. This provision applies to all solicitations.
- xxiii. 52.225-25, Prohibition on Contracting with Entities Engaging in Certain Activities or Transactions Relating to Iran—Representation and Certification. This provision

ATTACHMENT C – REPRESENTATIONS AND CERTIFICATIONS

applies to all solicitations.

xxiv. 52.226-2, Historically Black College or University and Minority Institution Representation. This provision applies to solicitations for research, studies, supplies, or services of the type normally acquired from higher educational institutions.

- (2) The following representations or certifications are applicable as indicated by the Contracting Officer:
 - i. _X__52.204-17, Ownership or Control of offeror.
 - ii. _X__52.204-20, Predecessor of offeror.
 - iii. ____52.222-18, Certification Regarding Knowledge of Child Labor for Listed End Products.
 - iv. ___52.222-48, Exemption from Application of the Service Contract Labor Standards to Contracts for Maintenance, Calibration, or Repair of Certain Equipment--Certification.
 - v. ___52.222-52 Exemption from Application of the Service Contract Labor Standards to Contracts for Certain Services--Certification.
 - vi. ___52.223-9, with its Alternate I, Estimate of Percentage of Recovered Material Content for EPA-Designated Products (Alternate I only).
 - vii. ___52.227-6, Royalty Information.
 - A. ___Basic.
 - B. ___Alternate I.
 - viii. ____52.227-15, Representation of Limited Rights Data and Restricted Computer Software.

 (\mathbf{d})

The offeror has completed the annual representations and certifications electronically via the SAM Web site accessed through https://www.acquisition.gov . After reviewing the SAM database information, the offeror verifies by submission of the offer that the representations and certifications currently posted electronically that apply to this solicitation as indicated in paragraph (c) of this provision have been entered or updated within the last 12 months, are current, accurate, complete, and applicable to this solicitation (including the business size standard applicable to the NAICS code referenced for this solicitation), as of the date of this offer and are incorporated in this offer by reference (see FAR 4.1201); except for the changes identified below [offeror to insert changes, identifying change by clause number, title, date]. These amended representation(s) and/or certification(s) are also incorporated in this offer and are current, accurate, and complete as of the date of this offer.

FAR Clause Title Date Change

FAR Clause	Title	Date	Change

Any changes provided by the offeror are applicable to this solicitation only, and do not result in an update to the representations and certifications posted on SAM.

ATTACHMENT D - ORGANIZATIONAL CONFLICT OF INTEREST (OCI)

I. SITUATIONS THAT GIVE RISE TO OCI

Situations of impaired objectivity, biased ground rules, and unequal access to information—as defined in section II include, but are not limited to, the following:

- 1. Work under the contracts cited in 4.2.2 may require support to the development of ML2 requirements or specifications, or the performance of studies or assessments resulting in material supporting ML2 requirements during the conduct of this acquisition.
- 2. Work under contracts cited in 4.2.2 may require systems engineering or technical direction (consistent with the definitions found at FAR 9.505-1), of SLS requirements which may impact or drive changes under the ML2 contract.
- 3. Work under contracts cited in 4.2.2 may require systems engineering or technical direction (consistent with the definitions found at FAR 9.505-1), of ML2 requirements or designs which result in changes under the ML2 contract.
- 4. Work under contracts cited in 4.2.2 may involve an evaluation or assessment of ML2 designs.
- 5. Work under contracts cited in 4.2.2 may provide the contractor with competitively useful, nonpublic information, or special knowledge about the Government's future requirements affecting SLS or ML2 not available to other prospective offerors competing for award of the ML2 contract.
- 6. Work under the contracts cited in 4.2.2 may require the contractor to support verification activities and perform validation activities for the ML2 (i.e., procedural development, performance of validation testing and support to operational readiness activities).
- 7. Work under the contracts cited in 4.2.2 may include surveillance, inspection and quality assurance of project implementation activities, including subcontracted work, to ensure compliance with safety, quality, environmental, and technical requirements.

Absent a financial interest, a conflict may be avoided if the work performed under the contracts cited in 4.2.2 does not place the contractor or subcontractors in a position of performing work described in the Phase 1 RFQ.

II. OCI DEFINITIONS

"Organizational conflict of interest" means that because of other activities or relationships with other persons, a person is unable or potentially unable to render impartial assistance or advice to the Government, or the person's objectivity in performing the contract work is or might be otherwise impaired, or a person has an unfair competitive advantage. FAR 2.101.

"Impaired objectivity" refers to an OCI that is created when a contractor's judgment and objectivity in performing the contract requirements may be impaired due to the fact that the substance of the contractor's performance has the potential to affect other interests of the contractor. The concern is that the firm's ability to render impartial advice to the Government could appear to be undermined by its relationship with the entity whose work product is being evaluated.

"Unequal access to information" OCIs consist of situations in which a firm has access to nonpublic information as part of its performance of a Government contract and where that information may provide the firm a competitive advantage in a later competition for a Government contract.

"Biased ground rules" refers to an OCI that is created when a firm, as part of its performance of a Government contract, has in some sense set the ground rules for another Government contract by, for example, writing the statement of work or the specifications. The primary concern is that the firm could skew the competition, intentionally or not, in favor of itself. These situations may also involve a concern that the firm, by virtue of its special knowledge of the agency's future requirements, would have an unfair advantage in the competition for those requirements.

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Offeror's Name Name of Project Location of Project Period of Contract Performance (beginning and ending dates) Type of Contract (e.g. Firm Fixed Price, Cost Plus Award Fee, etc.) Name, telephone number, and email address of the Contracting Officer, owner, or equivalent customer contact (POC). If work was performed as a subcontractor, the Prime can be used as the POC. Your Company role (Prime, Joint Venture, Subcontractor, etc.) Type of services performed by company (e.g. design, design-build, construction, etc.) Dollar value of contract as initially awarded

ATTACHMENT E - RELEVANT PROJECTS

Please attach a one page (as defined in 4.3.2) summary of your company role for self-performing services on this contract, including, but not limited to:

 Rationale demonstrating that the projects are comparable to this acquisition with a discussion on the relevant technical requirements and unique schedule requirements

TO BE COMPLETED BY THE EVALUATOR:

This questionnaire, when completed, must	not be disclosed to anyone outside the G	overnment.
Contractor:	Prime or sub?	
Contract Number:	Contract Type:	_
Description of Service:		_
Period of Performance:		
Contract or Subcontract Value at Award:		
Contract or Subcontract Value Current:		
PLEASE FILL IN THE FOLLOWING RE Name of Evaluator:	SPONDENT INFORMATION	
Organization:		
Telephone:		
Email address:		
Dates of Involvement in Contract:		
Date Questionnaire Completed:		

For each question below, please rate the contractor from Poor to Excellent (as defined below) and explain your rating. A rating of N/A should be used if either the question is not applicable or the answer is unknown. This rating is neutral and will have no impact on the assessment of Present and Past Performance. The Contracting Officer may contact the respondent for additional information, if needed. When rating the contractor per the statements below, chose "N/A" or the adjective rating which most accurately describes the contractor's performance. The ratings are defined as follows:

Not applicable or unknown: Did not observe performance in this area.

<u>POOR</u>: Did not meet minimum acceptable standards in one or more areas; remedial action required in one or more areas; problems in one or more areas which, adversely affect overall performance.

<u>FAIR:</u> Meets or slightly exceeds minimum acceptable standards; adequate results; reportable problems with identifiable, but not substantial, effects on overall performance.

GOOD: Effective performance; fully responsive to contract requirements; reportable problems, but with little identifiable effect on overall performance.

<u>VERY GOOD:</u> Very effective performance; fully responsive to contract requirements; contract requirements accomplished in a timely, efficient, safe and economical manner for the most part; only minor problems with little identifiable effect on overall performance.

EXCELLENT: Of exceptional merit; exemplary performance in a timely, efficient, safe and economical manner; very minor (if any) problems with no adverse effect on overall performance.

		Excellent	Very Good	Good	Fair	Poor	N/A
Item	Factors/Ratings						
	Quality of Work						
1	Overall skill level & technical competence of contractor's personnel						
2	Ability to identify risk factors and alternatives for alleviating risk						
3	Ability to identify and solve problems expeditiously						
4	Overall quality of delivered products						
5	Ability to follow procedures and document substantiating evidence (i.e. Acceptance Data Package, Requests For Information, Contract Deliverable Requirements List, etc.)						
	Cost Control						
6	Ability to control contract cost (if the contract experienced an overrun, please comment in the Narrative Summary)						
7	Ability to search for and apply cost efficient practices						
8	Ability to provide accurate and complete cost estimates						
	Compliance with Performance Schedules						
9	Ability to complete major tasks or key project milestones on schedule						
10	Ability to provide timely reports and documentation submittals						
11	Ability to develop and manage critical path(s) to maintain project schedule						
	Safety						
12	Ability to perform work safely without safety violations						
13	Safety plans were documented and adhered to						
14	Safety violations were documented and the underlying condition or failure was addressed to reduce the likelihood of recurrence						
15	Close Call reporting is encouraged and close calls were documented and addressed to reduce the likelihood of recurrence						
	Management Effectiveness						
16	Ability to effectively coordinate, integrate & manage subcontractors and flow-down contractual requirements						
17	Ability of management team to show innovation and a proactive approach to problem identification and resolution						

18	Ability to effectively interface with the Customer's staff				
19	Ability to respond to contract modifications				
20	Ability to meet project requirements				
21	Ability to effectively communicate and document pertinent issues throughout the contract				
	Customer Satisfaction				
22	How would you rate the contractor's <u>overall management</u> <u>performance</u> on this contract?				
23	How would you rate the contractor's <u>overall technical</u> <u>performance</u> on this contract?				
24	Would you use this contractor again? (If "No", please comment in the Narrative Summary)	YES	•	NO	

 $NARRATIVE\ SUMMARY\ (Use\ this\ section\ to\ elaborate\ on\ the\ specifics\ of\ the\ rating\ and\ to\ explain\ additional\ information\ not\ included\ above)$

Item	Comments

ATTACHMENT G - SAFETY PAST PERFORMANCE

If necessary, attachments are allowed.

- 1. Offeror's Prime Construction Organization
- 2. Documented evidence of Experience Modification Rate (EMR) for the previous three years.
- 3. Days Away, Restricted or Transferred Rate (DART) (NAICS Code 236210 Industrial Building Construction) for the previous three years. The data must include incidence rates of days away from work, job transfer, or restriction cases, occupational injuries and illnesses, by quartile distribution and employment size group, private industry as most recently published by the Bureau of Labor Statistics.
- **4. Total Case Rate (TCR)** (NAICS Code 236210 Industrial Building Construction) for the previous three years. The data must include incidence rates of total recordable cases of occupational injuries and illnesses, by quartile distribution and employment size group, private industry as most recently published by the Bureau of Labor Statistics.
- **5. DAFWII** (**Days Away From Work Injury Illness**) **Rate** this rate indicates how many Days Away cases an organization experienced relative to the number of hours employees worked. Provide the previous three years.
- 6. Log of Occupational Injuries and Illnesses (OSHA 300A): a copy of the offeror's annual summary of occupational injuries and illnesses (or equivalent) as described in Title 29, Code of Federal Regulations, Subpart 1904.5 for the previous three years. If the offeror is exempt by regulation from maintaining and publishing such logs, equivalent data in the offeror's format is acceptable (such as loss runs from insurance carrier) which contains the data required. Data must be compiled and reported by calendar year and the most recent summary must be provided at the same time as the Safety and Occupational Health Plan.
- 7. Brief Description of the offeror's safety program.

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