

No.	Document	Section	Paragraph	Page No.	Question	Response
1	DRFP	B.1		9	The base and IDIQ content are not in separate CLINS. This appears unusual unless all work will be IDIQ. Section L.5 Type of Contract, page 108 of 166, indicates the award will be a CPAF contract with an IDIQ provision. We understand that the Spaceport Services support will be the IDIQ portion of the contract. Does hybrid in this case mean CPAF and IDIQ? Will IDIQ be CPAF also? Please clarify the CLINS issue.	TOSC is a Cost Plus Award Fee (CPAF) contract with an IDIQ component. IDIQ tasks will be issued as CPAF.  Since all IDIQ services will be CPAF, the cost and fee associated with these services will be administered under CLIN 001.
2	DRFP	B.1		9	The basic contract period is limited to 21 months, 01/01/13 thru 09/30/14. This is unusual for a base contract, and unusual because the two option periods that follow are longer (24 months each) in duration. Is the government willing to consider lengthening the basic contract period of 1.75 years to a longer one?	No, the TOSC contract is not approved for multiyear contracting authority to extend the base period beyond the period of the availability of funds.
3	DRFP	B.2		13	It is believed that the values shown in Table B.2-1 include work scope addressed in PWS Sections 1 thru 7, and specifically include large amounts of touch labor associated with the processing, maintenance and construction requirements of Sections 5, 6 and 7. If true, this stipulates a significant amount of labor activity will be excluded from the fee pool, perhaps as much as 20%. Is it NASA's intent to remove this large percentage of labor value from the fee pool? Please clarify.	No, the Standardized Values in Table B.2-1 identifies estimated non-labor cost only. It is not intended that any direct TOSC labor will be captured in the Standardized Values.
4	DRFP	B.4		15	Request clarification on applicability of IDIQ rates. Specifically, are the IDIQ rates applicable only to PWS 8.0 of CLIN 001, or can they be applied to other CLINs as well. PWS 8.0 is the only place IDIQ is mentioned in J-01 PWS.	Table B.4-1 IDIQ Rates are applicable only to work performed under PWS Section 8.0. PWS Section 8.0 is included only under CLIN 001.
5	DRFP	B.7		18	If the contract terminates and the employee is not picked up by the follow-on contractor under continuity of service, how can this not be considered an involuntary termination or an allowable cost?	Contract expiration is a foreseeable event of which all parties are aware and does not result in an involuntary termination of employment.
6	DRFP	H.8		45	Three of the referenced compliance documents (KNPR 1860.1, KNPR 1860.2, and KNPR 8715.2) are of limited distribution and are not available through the provided website. Per instructions provided at the referenced website, we have called Customer Service to determine the method by which these documents will be provided; however, at this time, we still have not received access to the three documents listed above.	These documents have been verified to be in the bidders' library.
7	DRFP	H.9		46	Does the reporting of "total off-site workforce performing on the contract" include the contractor's and any subcontractor's indirect or general and administrative personnel, if any?	Yes, but with limitations which will be defined in RFP DR 1.2-2.
8	DRFP	H.12	(c)(2)	48	Does the restriction described apply to a subcontractor at any tier?	Yes, RFP clause H.12 paragraph (c)(2) will be revised accordingly.
9	DRFP	H.17			Will there be guidelines or incentives for the offeror to market TOSC services and assets to external customers?	No, there will be no unique guidelines or incentives identified in the RFP for the contractor to market TOSC services and assets to external customers. However, cost reductions or offsets that result from work for others effort will be evaluated as part of the contractor's cost performance during award fee evaluations.

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10	DRFP	H.17	(b)	52	The DRFP states "The contractor shall informally partner with the Government to identify and discuss potential work for others...."; however, the DRFP does not appear to include any evaluation criteria by which the Government can assess an offeror's ability and approach to successfully identify, obtain and/or perform work for others. On what basis will the Government evaluate offeror's approach to work for others?	<p>The Government will not evaluate an offeror's approach to identify, obtain and/or perform work for others.</p> <p>The reference to informal partnership with the Government is applicable during contract performance where the contractor is requested to identify potential work for others in advance to allow the Government to reasonably assess the request for accommodation.</p>
11	DRFP	H.17	(b)(6)	52	The DRFP states ".... that addresses the Government's level of commitment, terms and conditions associated with provision of direct labor and reimbursement of costs, intellectual property and patent rights, and other requirements." Can the Government's general "terms and conditions associated with provision of direct labor and reimbursement of costs, intellectual property and patent rights, and other requirements" for an RSAA be made available to offerors?	The terms and conditions of a Reimbursable Space Act Agreement are unique to each agreement. The successful offeror would contact the TOSC contracting officer or contracting officer's technical representative regarding establishment of the unique Reimbursable Space Act Agreement.
12	DRFP	H.17	(c)(1)(iii)	53	Can the Government provide the current written procedure that specifies cost components, amounts and fees for items (A), (B) and (C) of the referenced clause?	The specific cost components, amounts and fees to be reimbursed or credited to NASA KSC, and the points of contact and authority will be established and provided to the contractor after award.
13	DRFP	H.17	(c)(2)(i)	53	Is the cost of money, if any, associated with pre-payment of Government direct labor support an allowable direct cost to the TOSC contract?	No, cost of money associated with pre-payment of Government direct labor support is not an allowable charge to the TOSC contract.
14	DRFP	H.17		51	Does the WFO Provision replace Rent-Free Non-Interference Use (RFNIU) and Rental Use Agreements?	The Work for Others (WFO) clause does not replace the requirements of FAR 45.301(f) or 52.245-9 regarding use and rental of Governmental property.
15	DRFP	H.17		16	The entry for WORK FOR OTHERS references "contract clause at H.18 ...." Should this be H.17?	Yes, the reference should be Clause H.17. The RFP will be updated.
16	DRFP	H-17 and L.23		51 and 138	The TOSC RFP asks for as many direct employees as possible yet the Work For Others (WFO) provisions drive the prime to a multiple contract environment that often requires that more employees be classified as indirect. Which is more important to the Government, WFO or nearly all employees classified as Direct?	<p>The WFO clause (H.17) facilitates the contractor's use of contract resources to perform work for others. Work for others is not a contract requirement. See Clause H.17 paragraph (c)(1)(ii) regarding charging of work for others.</p> <p>Offerors are advised to propose TOSC labor as direct cost when appropriate and identify as WYE whenever possible.</p>
17	DRFP	H.19		58	H.19 states "The contractor shall establish formal guidelines for coordination, cooperation, and exchange of information with associate contractors, at the appropriate level and interfaces." Does this imply there will be contractor support for other flight elements during the operations? Will these be similar (on a smaller scale) to the launch support services teams that were used for the shuttle processing?	<p>Yes, Original Equipment Manufacturers (OEMs) will be expected to support processing activities; however, this does not imply duplication of the shuttle processing methodology.</p> <p>For ESD programs, once OEMs transfer the hardware, TOSC assumes responsibility for processing. The OEMs will be consulted for procedure development, integrated testing, and resolution of nonconformances and interface issues.</p> <p>Prior to first use, unique flight hardware work authorizing documents will be developed by TOSC with NASA design center and OEM support.</p> <p>Problem resolution activities falling within established design parameters will be performed by TOSC.</p> <p>Flight hardware sustaining engineering responsibility remains with the designated NASA organization.</p>
18	DRFP	H.27 and I.33		61 and 94	In the TOSC DRFP, the H.27 and the I.33 clauses appear to be duplicates. Please clarify.	The RFP will be updated to remove the clause at H.27.

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19	DRFP	I.2			In review of the draft RFP we have been unable to locate the FAR and/or NASA clauses covering rights in data, software and inventions. Please confirm which such clauses will apply.	Refer to RFP Sections I.2 and I.3 for FAR and NFS clauses on rights in data, software and inventions. Additionally, the RFP will be updated to include NFS 1852.227-70 New Technology, and 1852.227-71 Requests for Waiver of Rights to Invention.
20	DRFP	I.14		78	The TOSC DRFP cover letter dated 9/30/2011, includes the following: "A deviation from the requirement at FAR 17.204(e), which restricts the duration of service contracts to no longer than five years, has been requested but not yet approved."  TOSC DRFP Clause I.14 FAR 52.219-28, Post Award Small Business Program Representations (Apr 2009), part (b) states "If the Contractor represented that it was a small business concern prior to award of this contract, the Contractor shall re-represent its size status according to paragraph (e) of this clause...."  If the deviation is granted allowing for a nine year, nine month term of contract for the prime contractor, will that deviation flow down to the prime's small business subcontractors, allowing for nine year, nine month term contracts with them?	The significance of the NASA deviation is only to authorize NASA to enter into a contract with a prime contractor with a potential period of performance longer than 5 years. The deviation to allow an overall potential contract period of performance greater than five years does not extend beyond that purpose or otherwise provide an exception to other applicable contract or regulatory provisions; these other provisions will apply or not apply as determined independent of the period of performance deviation.
21	DRFP	L.14	(b)		Section L.14(b) refers to "high value equipment and property." What is the threshold for high value equipment and property?	This is an overarching phrase and does not have a specific dollar value associated with its usage.
22	DRFP	L.21	Table L.21-1	118	The RFP specifies No. of Hard Copies for Basis of Estimates as 5. Is this in addition to the 2 Hard Copies for Cost (all sections) for a total of 7, or will it be 3 additional for a total of 5. Please clarify this for Model Contract copies as well.	Table L.21-1 requires two hard copies of all sections of the Cost volume, which includes the Basis of Estimates and Model Contract.  Furthermore, Table L.21-1 identifies five additional hard copies of the Basis of Estimates, and three additional copies of the Model Contract.  Therefore, the total requirement of Basis of Estimates hardcopies is seven, and Model Contract hardcopies is five.
23	DRFP	L.21	(a)(5)	116	The RFP states the outside covers should have the legend "Volume __, Original" or Volume __, Copy __ of __". Please clarify how the additional Basis of Estimate and Model Contract hard copy legends should read.	The RFP will be updated for clarification.
24	DRFP	L.21	(b)	116	Is it permissible to use Arial 10-point Narrow font?	No. Arial is the font required for non-text illustrations, captions, figures, tables and graphics.
25	DRFP	L.21	(b)	116	DRFP specifies "Non-text illustrations, captions, figures, tables, and graphics text shall use Arial font, with a type-size no smaller than 10-point." We assume "Non-Text illustrations" refers to photos that contain text, is that correct?	Yes, non-text illustrations include photos, diagrams, schematics, and other similar items that may contain text. A minimum 10-point Arial font is required for text contained in illustrations, captions, figures, tables and graphics.
26	DRFP	L.21	(a)(4)	115	For TOSC DRFP, Section L.21 (a) (4) instruction, pg.115, would NASA consider including an exception to permit offerors to reference from scenario responses to sections in the mission suitability volume for ease in evaluation?	The RFP Section L.21 paragraph (a)(4) will be revised to permit reference between the following:  - Volume I, Mission Suitability - Volume IV, Safety and Health Plan - Volume IV, Labor Relations - Volume IV, Scenario Responses

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27	DRFP	L.21	(a)(3) and (a)(4)	115	L.21 (a)(3) states that no material outside of the proposal volumes may be incorporated by reference. L.21 (a)(4) states the offerors may reference another section within a given volume, with the exception of the Safety and Health Plan, which may reference information in the Mission Suitability volume; however, Volume IV contains information that is directly relevant to information required in other volumes, and vice versa. For example, Volume IV Scenario Responses may involve application of an approach detailed in Volume I, Technical. Another example is Volume I, Management, which might address capabilities of a specific individual whose resume may be included in Volume IV. Another example is an approach detailed in Volume I for which offerors may have demonstrated past performance described in Volume III. Many other examples could be offered. To minimize redundancy in the proposal, will the Government please extend the ability of offerors to reference material contained in one volume to another, regardless of the topic?	The RFP Section L.21 paragraph (a)(4) will be revised to permit reference between the following:  <ul style="list-style-type: none"> <li>- Volume I, Mission Suitability</li> <li>- Volume IV, Safety and Health Plan</li> <li>- Volume IV, Labor Relations</li> <li>- Volume IV, Scenario Responses</li> </ul>
28	DRFP	L.21	(c)	116	Title pages and tables of contents are excluded from the page counts specified in Table L.21-1 Proposal Instructions. What about other reference pages such as Acronym lists and cross-reference or index pages? Are they part of the page limited portion? Request clarification of any other exceptions to page limitations for reference material that might improve the customer's ability to locate relevant information.	See RFP Section L.21 paragraph (a)(5) for cross-reference list and Table L.21-1 for acronyms.
29	DRFP	L.21			Could the Government release the PWS and Sections L and M in Word format (instead of, or in addition to, PDF). This would facilitate the bidders shredding these documents into requirements traceability tools.	No, the PWS and Sections B-M of the RFP will not be released in Microsoft Office Word format.
30	DRFP	L.21 and Attachment L-07			Are the "Key Personnel Letters of Intent" identified in Table L.21-1 and the "Letter of commitment from key person to offeror's company" in Attachment L-07, item 8.c, the same item?	Yes, the "Key Personnel Letters of Intent" and "Letter of commitment from key person to offeror's company" are the same item and intended to identify commitment of any key personnel. The RFP will be updated for consistency.
31	DRFP	L.21 and Attachment L-07			Both Table L.21-1 and Attachment L-07 states that resumes have a two page limit. Item 8.c of Attachment L-07 identifies a letter of commitment as a requirement within the resume; however, Table L.21-1 provides a 1-page limit for a letter of intent, distinct from the resume 2-pages limit. May offerors combine key personnel resumes with the corresponding key personnel letter of intent, for a total page count of 3 pages per key personnel resume / letter of intent?	There is a 3-page limit on the key personnel resume and letter of intent. The 3-pages are further limited by a 2-page limit for key personnel resumes and a 1-page limit for letters of intent.
32	DRFP	L.22		119	Should the sentence read "The Government may incorporate any of the offeror's proposed approach(es) for accomplishing the requirements of this solicitation in any resulting contract"?	The RFP will be updated for clarification.
33	DRFP	L.22		119	Could the Government clarify the use of the word "contributions" in the last sentence of this paragraph? The previous sentence addressed prime and subcontractor work and responsibilities. Is the interpretation of the context of the word "contributions" in this sentence as "The proposed work and responsibilities of the prime and subcontractors shall be identified and integrated into each part of the proposal, as appropriate" correct?	Yes, the term "contributions" is interchangeable with "work and responsibilities" as cited in the referenced paragraph.

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34	DRFP	L.22	MA-7	124	The DRFP reads "Data such as wage and salary ranges and fringe benefit formulas, factors, and rates shall be submitted as part of Volume II, Cost"; however, the 4th bullet requests "anticipated escalation of health insurance costs." In what manner will the Government evaluate within the mission suitability factor the cost escalation rate requested in this paragraph?	Proposed escalation will be evaluated as part of Cost. The offeror's proposed approach for fringe benefit policies and practices will be evaluated as part of Mission Suitability.
35	DRFP	L.22	SB-1	130	Please confirm that for the purpose of identifying appropriate subcontracting goals, the definition of TOTAL CONTRACT VALUE (basic and all options combined) includes only the cost and not the award fee of the prime contract.	For the purpose of identifying subcontracting goals, TOTAL CONTRACT VALUE includes cost and award fee.
36	DRFP	L.22	Small Business Utilization	130	The RFP reads "... small businesses are required to indicate the amount of effort proposed to be done by a small business either at the prime level or at the first tier subcontract level.". Is the assumption that a small business prime performs 100% of the contract, regardless of the number of subcontractors or the work-share of those subcontractors, incorrect?	Yes, that assumption is incorrect. A small business prime only performs 100 percent of the contract if there are no subcontractors.
37	DRFP	L.22	Small Business Utilization	130	Assume a populated joint venture between a small business and one or more large businesses, certified as a small business joint venture by the SBA. Would a small business entity such as this performing as the prime contractor (with no other subcontractors) be considered to be performing 100% of the TOSC effort?	Under the typical joint venture, the lead-in to the question as worded, may be an incorrect assumption under the SBA's affiliation rules, with few specific exceptions. Only the SBA holds the authority to issue a final administrative determination on the size status of an offeror. For regulatory requirements regarding small business size status, see 13 CFR Part 121, generally, and 13 CFR §121.103, specifically.
38	DRFP	L.22	SB-2	133	May offerors provide additional information demonstrating the extent of commitment to utilize small business within Volume IV, Copies of Joint Venture, Partnership and Major Subcontract Agreements, which has no page limitation?	No, the requirements of RFP Section L.22, SB-2 Commitment to the Small Business Program, shall be included in the Mission Suitability Volume, Small Business Utilization section. As part of the Mission Suitability Volume, the offeror shall comply with the page limitation cited in Table L.21-1.
39	DRFP	L.22	SB-1	130	We assume the FAR-required Small Business Subcontracting Plan should be included as an attachment to the Mission Suitability Volume. Is this a correct assumption? If not, please provide guidance as to which volume offerors should include their Small Business Subcontracting Plan?	The small business subcontracting plan shall be included as part of the Mission Suitability Volume, in the Small Business Utilization section. The RFP will be updated for clarification.
40	DRFP	L.22		119	Page 119 requires that the Mission Suitability volume be divided into five different sections with the Staffing Plan being the last section specified. Rather than incorporate the Staffing Plan as a separate section, may offerors include the required content within the TA-1 discussion (L.22, p. 125) at the start of the Technical subfactor (while still maintaining the 25 page limit)?	Yes. The sequencing of the offeror's proposal is discretionary provided the offeror complies with all instructions specified in RFP Section L, including page limitations and volume designations provided in Table L.21-1.
41	DRFP	L.22	MA-1	120	The DRFP reads "...implement services, identify offsets, and manage..." Could the Government please clarify the meaning of the term "offsets"?	The offeror is expected to describe, as part of its management approach, how costs will be shared (allocated) across customers, as the customer base is increased through issuance of IDIQ task orders. The offeror's approach should not permit duplicative charges to multiple customers for the same resources, but instead encourage savings to customers through appropriate allocation.
42	DRFP	L.22	MA-4	122	The DRFP reads "...process for determining offsets when using..." Could the Government please clarify the meaning of the term "offsets"?	The offeror is expected to describe, as part of its management approach, how costs will be shared (allocated) across customers, as the customer base is increased through issuance of IDIQ task orders. The offeror's approach should not permit duplicative charges to multiple customers for the same resources, but instead encourage savings to customers through appropriate allocation.

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43	DRFP	L.22	MA-5	122	The DRFP reads "The offeror shall describe its approach to minimize data replication, ...." Is the intent of the Government to minimize data duplication or data replication?	The requirement is to minimize data replication.
44	DRFP	L.22	Technical Approach	125	There is no section for Information Management and Technology (IMT) in the Technical Approach section. Is this intentional or an oversight? If this is an oversight, suggest that this section be authored and incorporated in the document.	The instructions for Information Management and Technology are identified in Section L.22 Management Approach (MA-5).
45	DRFP	L.22	MA-6	123	Section L.22 MA-6: Is there a place/places to go to obtain the current status of each applicable license on the current contracts to develop a schedule and cost for updating each?	No, the current status of each software license will not be provided because the offeror must price the cost of all software licenses at the start of the contract. RFP Section L.23 will be updated for clarification.
46	DRFP	L.22	MA-5	122	The DRFP indicates the TOSC IT systems will support "Interfaces to Government Systems."  Will the government supply a list of the systems that TOSC needs to interface with?	To the extent the IT systems are known, they are listed in the PWS and Appendix 13 Government Furnished Legacy IT Systems. Additional ESD programmatic systems are in development and cannot be defined at this time.
47	DRFP	L.22		126	The DRFP referenced the "Launch Team Design Team report provided in the Bidder's Library." We located Appendix D, Launch Team Design Team Constellation Team Conceptual Design, in document CxP-72149-03.pdf. Is this the correct report referenced in the TA-1 instruction?	Yes, CxP-72149-03 Appendix D contains the same report. The RFP will be updated to refer to CxP-72149-03 for launch team design team concept.
48	DRFP	L.22	TA-2	126	Reference the following sentence "The offeror shall describe its approach for integrating multiple operations, customer information and activities into these system(s)."  Section M did not specifically address the evaluation of this approach. Is this covered in a different evaluation paragraph in Section M?	The information requested by L.22 TA-2 will be evaluated consistent with the criteria identified in Section M, TA-2.
49	DRFP	L.22	TA-2	126	Reference the following sentence "The approach shall also address usage by Government and Government-designated personnel."  Section M did not specifically address the evaluation of this approach. Is this covered in a different evaluation paragraph in Section M?	The information requested by L.22 TA-2 will be evaluated consistent with the criteria identified in Section M, TA-2.
50	DRFP	L.22	TA-3	127	Reference the following sentence "The approach shall demonstrate the offeror's ability to respond to an accelerated ORU processing flow."  Section M did not specifically address the evaluation of this approach. Is this covered in a different evaluation paragraph in Section M?	The information requested by L.22 TA-3 will be evaluated consistent with the criteria identified in Section M, TA-3.
51	DRFP	L.22	TA-3	127	Reference the following sentence "The offeror's flight hardware processing approach shall be consistent with 21CGSP-OPSCON-1015 21st Century Ground Systems Program Concept of Operations Document."  Section M did not specifically address the evaluation of the approach being consistent with the 21 CGSP-OPSCON Document. Is this covered in a different evaluation paragraph in Section M?	The information requested by L.22 TA-3 will be evaluated consistent with the criteria identified in Section M, TA-3.

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52	DRFP	L.22	TA-5	128	<p>"The offeror shall describe its approach, process, systems, and methodology to train contractor, Government, and Government-designated personnel."</p> <p>What specific training is being referenced for government and government-designated personnel?</p>	The referenced training, as described in PWS Section 7.4, is to provide access for Government and Government-designated personnel. Regarding Government and Government-designated personnel, the RFP Section L.22 TA-5 will be updated for clarification.
53	DRFP	L.22	MA-2	121	The instruction requests that the offerors identify both major Program and Customer interfaces. Can the Board provide organizational charts for the major Programs and NASA Customers, including updated KSC organizational elements?	Organizational structures will be addressed at the Pre-solicitation Conference. Presentation materials will be posted on the TOSC website.
54	DRFP	L.22			Will the Government be evaluating all proposals against the minimum requirements of the RFP or will the Government allow offerors to propose to exceed the requirements?	The RFP will be updated to allow offerors to propose to exceed the requirements of the RFP and the Government to evaluate the benefit consistent with NFS 1815.306(d)(3)(B).
55	DRFP	L.22 and M.3	MA-5 and MA-5	122 and 158	<p>Reference wording in Section L22-MA-5, "Interfaces to Government systems," and Section M.MA-5, "interoperability with Government systems"</p> <p>What is the difference between "interfaces to" and "interoperability with"?</p>	A different meaning was not intended. The RFP will be updated to reflect consistent wording.
56	DRFP	L.22 and M.3	TA-2 and TA-2	126 and 160	<p>Sections L and M did not specifically address the approach or the evaluation of the following sections of the PWS:</p> <p>4.4 Advanced Planning 4.8 Administrative Support for Meetings and Boards 4.9 Contamination Control 4.10 Electromagnetic Environmental Effects Control</p> <p>Are these covered in different sentences/paragraphs in Sections L &amp; M?</p>	The PWS sections referenced are specific components of processing support and integration services. They should be addressed in the Staffing Plan and BOEs (L.22 TA-1). This information will be evaluated consistent with the criteria identified in Section M technical approach subfactor.
57	DRFP	L.22 and M.3	TA-4 and TA-4	127 and 161	<p>Sections L and M did not specifically address the approach or the evaluation of section 6.4.2 (Ground Systems Analysis) of the PWS.</p> <p>Is this covered in different sentences/paragraphs in Sections L &amp; M?</p>	The PWS sections referenced are specific components of Ground Systems Operations, Maintenance, and Sustaining Engineering. They should be addressed in the Staffing Plan and BOEs (L.22 TA-1). This information will be evaluated consistent with the criteria identified in Section M technical approach subfactor.
58	DRFP	L.22 and M.3	TA-5 and TA-5	128 and 161	<p>Sections L and M did not specifically address the approach or the evaluation of the following sections of the PWS:</p> <p>1. 7.5.2 Property Management 2. 7.5.3 Vehicle Management</p> <p>Are these covered in different sentences/paragraphs in Sections L &amp; M?</p>	The PWS sections referenced are specific components of logistics services. They should be addressed in the Staffing Plan and BOEs (L.22 TA-1). This information will be evaluated consistent with the criteria identified in Section M technical approach subfactor.
59	DRFP	L.23	Section 4 (b)(3)	139	<p>NASA defines the Work Year Equivalent (WYE) as the "annual available hours (e.g., 2080, 2088, 2096) which vary from year to year, less non-productive time (e.g., vacation, sick time, personal time, and holidays)." Since the first contract year is a nine month period, should an offeror assume the available hours correspond to the nine month period for WYE calculation or to a 12 month period? For example, if an individual works the available 1,560 hours in GFY1, is this 1.0 WYE (1,560/1,560) or 0.75 WYE (1,560/2,080)?</p>	Since the term refers to a work year equivalent, substituting partial-year periods in the formula would provide incorrect and incompatible results. The offeror needs to calculate the available hours based on whole-year periods. The model will calculate the equivalent of nine months based on the annual productive hours.

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60	DRFP	L.23	Section 4 (b)(3)	139	<p>The RFP directs offerors to use the available hours associated with each year of the contract duration including option years. Based on our calendar review, we observed the available hours for each fiscal year as follows:</p> <p>GFY1 (1/1/2013 – 9/30/2013) 1,560                      GFY2 (10/1/2013 – 9/30/2014) 2,088                      GFY3 (10/1/2014 – 9/30/2015) 2,088                      GFY4 (10/1/2015 – 9/30/2016) 2,096                      GFY5 (10/1/2016 – 9/30/2017) 2,080                      GFY6 (10/1/2017 – 9/30/2018) 2,080                      GFY7 (10/1/2018 – 9/30/2019) 2,088                      GFY8 (10/1/2019 – 9/30/2020) 2,096                      GFY9 (10/1/2020 – 9/30/2021) 2,088                      GFY10 (10/1/2021 – 9/30/2022) 2,088</p> <p>Would NASA please confirm the available hours to be used by all offerors based on the schedule shown above?</p>	No, the offeror needs to calculate the available hours based on whole-year periods in accordance with its accounting practices. The model will calculate the equivalent of nine months based on the offeror's input.
61	DRFP	L.23			Will OT guidance be provided (e.g., historical overtime usage)?	No, historical overtime data is not representative of future work and will not be provided. The amount of overtime utilized to perform contract requirements is highly dependent on the offeror's approach.
62	DRFP	L.23	Section 4 (b)(7)	139	The range of uncompensated overtime practices may vary between offerors from 0 hours (no uncompensated overtime) to as many as 15 additional hours per week. What is the threshold for "reasonable" and who makes this determination – the offeror's local DCAA office or the TOSC SEB?	The cost instructions and model afford the opportunity for uncompensated overtime if proposed by the offeror. The Government will evaluate any proposed uncompensated overtime in accordance with FAR 15.305. The TOSC SEB makes the final determination.
63	DRFP	L.23	Section 5 (a)(2)	140	Does the definition of Major Subcontractor \$50.0M threshold include CLIN 001 Basic through Option 6?	The \$50 million threshold for determining a major subcontractor is inclusive of the base and all options (i.e., CLINs 001-004 basic and option years). The RFP Section L.23 Section 5 will be updated.
64	DRFP	L.23		136	The TOSC DRFP Section L.23 Cost Instructions - Specific Instructions Section 3 - Basis of Estimate paragraph (2) requires the offeror to "include the discipline (e.g., Mech Engr, Elect Engr) in the BOE." Does this mean the offeror shall include each of these disciplines on the required BOE Summary by GFY (which provides a summary of labor and non labor) or does a detailed narrative description of the work that these lower level disciplines will perform within the BOE satisfy this requirement?	The breakdown by discipline is required in the BOE summary.
65	DRFP	L.23		136	The TOSC DRFP Section L.23, Cost Instructions - Specific Instructions Section 3 - Basis of Estimate, paragraph (3) requires the offeror to provide a BOE Summary by GFY (labor/non-labor). What measure (labor hours or WYE) should be reflected for labor?	Labor should be provided in hours. The RFP will be updated for clarification.
66	DRFP	L.24	(d)	149	The DRFP reads "This shall be done for at least three contracts demonstrating performance....". Is this at least three contracts for BOTH the prime and team member/major subcontractor(s), or at least three contracts for the prime AND each team member/major subcontractor, if any?	The RFP will be updated to state, "...at least three contracts per company" for clarification.
67	DRFP	M.3	MA-5	158	Are there identified Service Level Agreements (SLAs) associated with "uninterrupted Operations".	No, there are no SLAs associated with this reference to "uninterrupted operations". The RFP will be updated to clarify that the uninterrupted operations referred to in Section M.3 MA-5 apply to contract start.

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68	Attachment L-01	3.4		5	What is the basis for the \$3M cost? Is it for licenses of existing applications, software engineering maintenance, hardware upgrades? Does it include the labor costs associated with IT? Please provide cost breakdown/clarify	The cost includes existing licenses and maintenance. Labor is not included. The RFP will be updated for clarification.
69	Attachment L-01	5.1.2.2		8	<p>“Capacity to perform customer support for 14 science laboratories of processing to support science per mission identified in Appendix 3 in the SSPF and SLSL.”</p> <p>Does 14 science laboratories equal 14 science payloads (reference Appendix 3 number of Science Payloads)?</p>	<p>No. The number of science labs will typically not equal the number of science payloads. Some science payloads may require 2-3 labs for processing while others may be able to process 3 or more science payloads in a single lab depending on the science.</p> <p>The workload indicator in Attachment L-01 of 14 science labs is intended to be used in conjunction with Appendix 03 to define the requirement of 14 science payloads per mission.</p>
70	Attachment L-01	5.2		5	<p>“In support of the planetary spacecraft, manifested every other year, planetary protection laboratory support will be required. These services are the same laboratory support to payload customers defined in section 5.1.2.2. The planetary protection support is required for the duration of the planetary space craft processing. Assume nine months.”</p> <p>Are there cleanliness requirements during the 15 months when the facility is not in use (such as “maintain 100K clean room conditions”)?</p>	<p>Yes, there are cleanliness requirements during non-usage periods.</p> <p>For planetary spacecraft processing in the PHSF, when there is a period of no use longer than six months, the facility is placed in 'energy saving mode' and the frequency of maintenance requirements is relaxed. It is cleaned and re-certified prior to the spacecraft arrival.</p> <p>For the SSPF: When the planetary protection lab is not in use to support spacecraft processing, it may be utilized by other customers so it will remain as an active clean work area.</p> <p>The RFP will be updated for clarification.</p>
71	Attachment L-01	5.2		5	There are no WLI included for M7-1357. Are there host role services required from TOSC for the transient workers residing in M7-1357 during planetary spacecraft processing?	<p>TOSC will provide host services as defined in PWS Section 5.2.1. to customers regardless of location.</p> <p>M7-1357 (MOSB) is provided primarily as office space for customers and will be removed from PWS Appendix 5 in the RFP.</p>
72	Attachment L-01	6.3.2		17	Is the 40,000 ft2/60,000 ft2 of structure requiring corrosion control listed on Workload Indicator PWS Section 6.3.2 (Partial) for FY2013 – FY2016 and FY2017-FY2022 meant to indicate light maintenance painting with no major refurbishments or structural repairs?	No, the workload indicator is intended to cover major corrosion control activities on TOSC assigned systems. RFP Attachment L-01 will be updated to identify sand-blasting and painting (per NASA-STD-5008) as the only major corrosion control activities.
73	Attachment L-01				<p>LCS: Application/simulation model development responsibility; changes during V&amp;V; Government provided services/maintenance contracts</p> <p>Based on our review of the PWS and WLI we are not clear of the extent of contractor involvement and responsibility for developing applications/models and the phasing and the timeline(s) for performance and completion.</p>	<p>During development of LCS, the TOSC contractor will provide vehicle processing and ground systems operational expertise to the developer. TOSC responsibilities during the V&amp;V process are the same for all 21 CGS systems including LCS. After the Operational Readiness Review, TOSC is responsible for all aspects of operations and maintenance for all 21 CGS systems including LCS. The RFP will be updated for clarification.</p> <p>Information pertaining to V&amp;V activities will be provided in the bidders' library.</p>
74	Attachment L-01				<p>TOSC contractor responsibilities during component, system, sub-system and element level V&amp;V</p> <p>Our read of Attachment L-01, Work Load Indicators for key PWS associated with V&amp;V (particularly PWS 5.5.4 and 6.2) suggests that the WLI are partial and that there is more work to be performed. We would like to better understand contractor responsibilities during V&amp;V.</p>	<p>The workload indicator provided for PWS Section 6.2 addresses only V&amp;V activities for programmatic ground systems development projects defined in Appendix 7 OMEU worksheet 21CGS Systems. It is not intended to cover the requirements defined in PWS Sections 6.2.1, 6.2.2 and 6.2.3. The RFP will be updated for clarification.</p> <p>Information pertaining to V&amp;V activities will be provided in the bidders' library.</p>

No.	Document	Section	Paragraph	Page No.	Question	Response
75	Attachment L-01				Work Load indicators for sections related to SLS refer to CxP72149-03 sections. Instructions for TA-3 Flight hardware refers to 21CGSP-OPSCON-1015. In the event of conflicting approaches, which document would take precedence in evaluation of the proposed hardware processing approach?	CxP72149-03 has precedence over 21CGSP-OPSCON-1015 for evaluation of the proposed hardware processing approach. Instructions for TA-3 will be modified to refer to CxP72149-03. The 21CGSP-OPSCON-1015 will remain in the bidders' library for reference only.
76	Attachment L-01				Will Workload Indicators be provided specifically for PWS 7.0 (Logistics)?	Yes, RFP Attachment L-01 workload indicator will be updated to indicate that logistics support for flight hardware identified in PWS Appendix 16 is marginal effort.  Additionally, the PWS Appendix 7 OMEU provides the number of ground systems for which TOSC provides logistics support. Attachment L-06 provides numerous standardized values applicable to PWS Section 7.
77	Attachment L-01				Will NASA be providing any Workload Indicators for PWS Section 8.0 Spaceport Services? Provide or clarify the expectations of the TOSC contractor with regard to supporting this effort.	Workload indicators for PWS Section 8 will not be provided. PWS Section 8, Spaceport Services, is IDIQ. Requirements will be provided in individual task orders during contract implementation.
78	Attachment L-01				Integrated Vehicle Testing lists procedure development hours. Should offerors propose the procedure development hours for both the SLS1 and SLS2 launches?	The RFP Attachment L-01 will be updated for clarification.
79	Attachment L-01				Provide schedule for all modifications and/or new designs from OEMs and KSC contractors (ESC, IMCS, ISC, etc).	The requested information will not be provided.
80	Attachment L-01				Provide list of all open work.	The requested information will not be provided.
81	Attachment L-01				Provide list of all deferred work and approved completion dates.	The requested information will not be provided.
82	Attachment L-01				Provide list of all open problem reports for assigned equipment, facility systems, and facilities.	The requested information will not be provided.
83	Attachment L-01				Understanding that NASA is responsible for overall operation and integration at KSC ("running the city"), will TOSC be responsible to provide any support for overall operations such as the Safety Console and Shuttle Test manager (STM)? What is the level of such support (shifts, etc.)?	Overall operation and integration of KSC activities is not a TOSC responsibility. The TOSC contractor is required to integrate TOSC activities. The operational integration approach to meet PWS requirements is at the discretion of the offeror.  The RFP Attachment L-01 Workload Indicators will be updated to reflect nominal operating hours as a single shift per day and 5 days per week, unless operations or other requirements warrant.
84	Attachment L-01				The SLS has just recently been announced, and there are significant uncertainties in the schedule, final vehicle design, and concept of operations for the system. We request that the government provide all offerors with a baseline requirement defining the workload, services provided by the TOSC contractor, and manifest to ensure a level playing field in developing BOEs and cost proposals.	The SLS processing workload indicators, required services, and manifest information are contained in the RFP.
85	Attachment L-02				May additional columns be inserted into the cost forms at column A to facilitate importing data?	The RFP Cost Instructions will be updated for clarification.  Additionally, changes made to the cost model since the release of the Draft RFP will be provided and discussed as part of the Presolicitation Conference, Cost Form Workshop. The cost model released with the RFP will also include a list of changes.

No.	Document	Section	Paragraph	Page No.	Question	Response
86	Attachment L-02	OH-G&A-Fee Application Worksheet			Please confirm that the "Equipment (Capitalized)" refers to offeror owned equipment that will remain the property of offeror.	Yes, the Equip Form Capitalized worksheet refers to offeror-owned property. The RFP will be updated for clarification.
87	Attachment L-02				In the TOSC DRFP Attachment L-02 Cost Forms, 01 Draft BCM-wStandard Values, the direct labor rate forms have a Add'l Adjust. Column (J) for an additional rate. This rate calculates after G&A. We have other rates before G&A. Can we combine rates in the Overhead column? It appears that there are only two rates - Fringe and Overhead that can be used before G&A. Can we combine our other rates into the overhead rate and use that to price with? The only other option we see is to add costs in the additional Form A which appears to take additional other direct costs and not costs related to overhead rates.	The RFP cost instructions and cost model will be updated to address this issue.  Additionally, changes made to the cost model since the release of the Draft RFP will be provided and discussed as part of the Presolicitation Conference, Cost Form Workshop. The cost model released with the RFP will also include a list of changes.
88	Attachment L-02				In the TOSC DRFP Attachment L-02 Cost Forms, the Staffing tabs require offeror inputs for "Headcount." What is the difference between "Headcount" and the WYE which is automatically calculated on each Staffing tab?	Headcount refers to an employee count, where WYE is a calculation based on annual productive hours an employee could be expected to work in one year.  The headcount portion of the worksheet is an optional tool for the offeror's use.
89	Attachment L-02				The Attachment L-02, Cost Forms have a spreadsheet entitled "Subcontractor List." This spreadsheet includes a dropdown menu where the offeror can select the small business designation of its subcontractors. Many small businesses qualify for more than one small business designation (e.g. both a small disadvantaged and a woman owned small business). However, the form only allows one designation to be selected. How should an offeror fill out this form for subcontractors with multiple small business designations?	The RFP cost instructions and cost model will be updated to address this issue.  Additionally, changes made to the cost model since the release of the Draft RFP will be provided and discussed as part of the Presolicitation Conference, Cost Form Workshop. The cost model released with the RFP will also include a list of changes.
90	Attachment L-02				NASA has provided cost workbooks for the Basic Cost Model as well as Additional Cost Models to be used for Phase-In, CLIN 002 Preserving Thermal Protection System Manufacturing Capability, CLIN 003 ISS Transition and Retirement, and CLIN 004 Marine Vessel Operations and Maintenance. From our review, each of these workbooks is stand alone and no summary roll up workbook has been provided combining these CLINs. Does NASA intend to release a workbook summarizing these results or will Section B.1 serve as the only summary roll up of total proposed cost?	No, NASA will not include a summary workbook of all cost models.  RFP Section B.1 will not serve as the only summary roll up of total proposed costs. See RFP Section L.23, Cost Instructions, Specific Instructions, paragraph (a).
91	Attachment L-02				Direct Labor Rate tabs by FY: The burden calculations used for the calculations of the "Effective Straight Time, Full Burden" and the "Effective Overtime, Full Burden" are the same: Effective Straight Time or Effective Overtime Rate times (1 + Fringe rate) times (1 + Overhead rate) times (1 + G&A rate) plus any dollar value for adjustment purposes. If this application of burdens is not in accordance with the contractor's cost accounting disclosure statement in the development of the Straight Time and Overtime full burden rates, how is contractor to accomplish correct adjustments to each of the rates to be used to price the proposal in the Cost Forms.	The cost model worksheets are intended to be flexible to accommodate the offeror's proposed costs, in accordance with its disclosed accounting practice. The RFP will be updated.  Additionally, changes made to the cost model since the release of the Draft RFP will be provided and discussed as part of the Presolicitation Conference, Cost Form Workshop. The cost model released with the RFP will also include a list of changes.
92	Attachment L-02	L-02	5.1.1.1		The WLI refers only to a document that provides examples of the types of repairs that will be required. Is there a repair history/frequency for the ORU and FSE hardware that can be provided to facilitate the work load estimate?	Historical data is not representative of future workload and therefore will not be provided. Appendix 4 will be updated to provide the types of ORUs TOSC will be certified to repair and Appendix 3 provides the number of ORUs processed.

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93	Attachment L-08				Two scenarios require responses in the proposal that will contain approaches and ROM costs. Are these two scenarios representative of work orders that may be issued under contract? More specifically, are these scenarios representative of work required to support the Manifest in Appendix 3?	Yes. However, they are not intended to represent the full range of potential work or actual expected tasks.
94	Attachment J-01	1.1.7		11	This appears to be a new requirement for the TOSC work scope. Does NASA contemplate this staffing requirement to be approx. one (1) Work Year Equivalent (WYE) in size?	A workload indicator will not be provided. The staffing approach to meeting PWS Section 1.1.7 is at the discretion of the offeror.
95	Attachment J-01	1.3.1		13	<p>"The contractor shall provide protection of personnel, assets, equipment..."</p> <p>Is there a requirement for the contractor to provide perimeter and internal access control personnel for flight hardware and hazardous operations processing?</p>	The access control approach to meet the overall PWS requirements is at the discretion of the offeror. The contractor is responsible for maintaining safety, quality and configuration control; therefore, the contractor shall control access as required to accomplish these requirements.
96	Attachment J-01	1.3.1		13	What TOSC facilities or flight hardware are designated Mission Essential Infrastructure (MEI) or similar program designation under proposed or revised NPR1600.1?	There are no existing Mission Essential Infrastructure (MEI) facilities or assets under TOSC.
97	Attachment J-01	1.3.3		14	Is the contractor responsible for providing COMSEC support and maintenance to the 45th Space Wing Range Safety system?	No, there is no TOSC requirement to provide COMSEC support to the 45th Space Wing.
98	Attachment J-01	1.4		15	Can the government provide workload indicators for the number of project design reviews expected to be supported under PWS Section 1.4?	No, the Government will not provide workload indicators for the number of project design reviews to be supported within PWS Section 1.4. The support required is to ensure TOSC projects, not external projects, receive the appropriate environmental guidance to identify and adequately address environmental risks, including acquiring the necessary permits and establishing controls or mitigations.
99	Attachment J-01	2.2		21	<p>"The contractor shall submit corrective action plans for identified discrepancies for Government approval within four weeks and provide monthly progress reports until corrective actions are implemented."</p> <p>If the contractor maintains AS 9100 certification through their third party registrar, are corrective action plans still provided to the government for approval?</p>	The RFP PWS Section 2.2 will be updated to remove reference to third party for clarification.
100	Attachment J-01	2.2		21	<p>"The contractor shall develop, implement and maintain a management system which is compliant with SAE AS 9100. The Government or third party will assess the contractor's implementation for compliance."</p> <p>This paragraph indicates that Third Party certification to AS9100 is not required; but a third party assessor may be used to assess implementation and compliance. If a third party is used, will they be selected /contracted by NASA to perform the assessment, or will the third party be selected/contracted by the TOSC contractor?</p>	The RFP PWS Section 2.2 will be updated to remove reference to third party for clarification.

No.	Document	Section	Paragraph	Page No.	Question	Response
101	Attachment J-01	2.2.3		22	This section states, in part: "The contractor shall participate in the GIDEP....."  1) Will the TOSC contractor process documents through direct interaction with the GIDEP operations center or will NASA provide the GIDEP documents as they are received? 2) Is the TOSC contractor responsible for notification/closure of GIDEP issues to other contractors?	The offeror is expected to propose an approach that complies with requirements of the RFP.
102	Attachment J-01	3		25	Are there Particular "Industry Standard Best Practices" that the government is interested in.	No.
103	Attachment J-01	3			How is the Kennedy Data Center (KDC) required to be used by TOSC?	The KDC will provide support services as described in PWS Section 3 of the Draft RFP (see italics). The offeror is required to use the KDC services, at a minimum, to house the TOSC MIS servers that will be located at KSC per Draft RFP PWS Section 3.1.  If the contractor proposes an offsite location for the MIS requiring NASA data to be located outside of the KDC, the following criteria shall be met: <ul style="list-style-type: none"> <li>• The system must have a NASA/KSC IT approved IT Security Plan per PWS Section 3.5.</li> <li>• A characterization of network bandwidth requirements for the proposed solution shall be included in the proposal.</li> <li>• The cost to transfer the data back to NASA servers at contract end shall be included in the proposal.</li> <li>• The proposed solution must be compliant with current Information Architecture referenced in NPR 2830.1 Enterprise Architecture Procedures.</li> <li>• The proposed solution should include a risk management plan for the offsite location. The risks will be reviewed and updated on a regular basis throughout the offsite lifecycle.</li> <li>• The contractor shall provide a business case analysis, demonstrating the cost savings that NASA will realize when compared to using a NASA provided facility and system.</li> </ul> <p>The RFP will be updated to include this information in an additional appendix.</p>
104	Attachment J-01	3			What is the KDC virtual environment architecture?	The Kennedy Data Center (KDC) Virtual Hosting Infrastructure is built on an x86 platform utilizing the VMware vSphere hypervisor. Three levels of virtual server hosting are offered to meet a variety of performance requirements – Basic, Enhanced, and Premium. The service levels are defined as follows:  1) Basic Service - one virtual CPU (vCPU) / 2 GB RAM; 2) Enhanced Service - 2 vCPU / 4 GB RAM; 3) Premium Service - 4 vCPU / 8 GB RAM.  All service levels include 50 GB of disk storage for the operating system and 100 GB of storage for data. Additional storage may be purchased in 100 GB increments. KDC-supported operating systems include Windows 2008 Release 2 and Red Hat Enterprise versions 5.6 / 6.0.  This information will be included in the Bidders' Library.
105	Attachment J-01	3			What are the physical space limitations of the KDC?	Physical space limitations are not relevant. Offerors should propose their solutions (physical or virtual) regardless of space concerns.
106	Attachment J-01	3.2		26	What is the required availability of the Help-Desk. Is off-shift support required, is virtual support sufficient?	No, there is no requirement for Help-Desk off-shift support.

No.	Document	Section	Paragraph	Page No.	Question	Response
107	Attachment J-01	3.3		26	The reference to supporting a structured, searchable and interoperable environment for data management infers 100% electronic data files. In the case of hard copy documents, including proprietary data, is it expected that the contractor will have a process in place to scan hard copy records into electronic data media?	It was not intended to infer that existing hard copy data will be converted to electronic. The RFP will be updated for clarification.
108	Attachment J-01	3.3		27	"...Data delivery in-place..." What is definition of data delivery in-place?	This capability provides access to data in the contractor's native system(s). The RFP Glossary will be updated for clarification.
109	Attachment J-01	3.3		26	There appears to be a minor syntax error in paragraph 1, sentence 2. Provide correction.	This will be corrected in RFP.
110	Attachment J-01	3.5		27	What is the definition of "sensitive" information? Does this correlate to company sensitive, ITAR, etc.	The term sensitive information refers to Sensitive But Unclassified (SBU) information as defined in NPR 1600.1.
111	Attachment J-01	4.7		33	"The contractor shall utilize facility space listed in Appendix 5..." Appendix 5 includes numerous facilities used for Heavy Equipment maintenance. Is it NASA's intent that the TOSC contractor assumes maintenance responsibilities for a portion of the HE fleet?	No, TOSC scope does not include maintenance of heavy equipment. PWS Appendix 5 will be updated in the RFP.
112	Attachment J-01	4.7		33	"Where Identified as "TOSC Lead Facility Integrator" in Appendix 5...the contractor shall integrate and coordinate activities within the facility." Appendix 5 includes numerous facilities used for HE maintenance. Is it NASA's intent that the TOSC contractor assumes integration and coordination of the usage of those facilities even if another contractor is providing the HE maintenance services?	No, TOSC scope does not include maintenance of heavy equipment. PWS Appendix 5 will be updated in the RFP.
113	Attachment J-01	4.10		34	Is the intent that the contractor will (a) actively monitor RF using equipment such as spectrum analyzers; or is it (b) to control/coordinate the use of RF equipment in TOSC controlled facilities such that it will not interfere with other KSC operations?	As referenced in PWS Section 4.10, "monitor" means to operationally control and coordinate the use of RF equipment in TOSC-controlled facilities such that it will not interfere with operations or cause unintended consequences. The RFP will be updated for clarification.
114	Attachment J-01	5.1.1 5.4.1 5.4.5		36 43 45	The AMMONIA VAPOR CONTAINMENT BUILDING (M7-0361A) is included in Appendix 5 – Government Furnished Facilities. Also the SSPF AMMONIA SERVICING SYSTEM - GS5-00421 is included in Appendix 7 – TOSC OEMU matrix.  PWS 5.4.1 and 5.4.5 includes a requirement for ammonia servicing for the MPCV; however there are no ammonia servicing requirements for ISS ORU processing included in PWS section 5.1.  1. Is there a requirement for ammonia loading/servicing for ISS ORU processing in the SSPF?  2. Is it the intent to perform MPCV ammonia servicing/de-servicing in the SSPF vs the KSC MPCV offline processing facility?	1. Yes, the RFP will be updated to include the requirement for servicing of Ammonia Tank Assemblies (ATAs) in the SSPF.  2. No, MPCV processing will not occur in the SSPF.
115	Attachment J-01	5.2		41	The PWS5.2 requirements for LSP support do not include spacecraft fueling and servicing. Other areas of the PWS where TOSC spacecraft fueling and servicing support is required is for Multi-Purpose Crew Vehicle Offline Processing (PWS 5.4.1) and as an IDIQ service identified in PWS 8.2 (Processing Services).  Is it the intent to have LSP fueling and servicing in PHSF performed by the ISC through TOSC coordination, or will LSP Spacecraft fueling and servicing be performed by TOSC as an IDIQ task?	LSP spacecraft fueling has not been identified as a baseline requirement for TOSC. If an LSP spacecraft fueling requirement is identified in the future, it may be added as an IDIQ task order per requirements in PWS Section 8.

No.	Document	Section	Paragraph	Page No.	Question	Response
116	Attachment J-01	5.2		41	Are there any spacecraft that will utilize Special Nuclear Material (i.e. Radioisotope Thermoelectric Generators and/or Radioisotope Heater Units, etc.) during the TOSC period of performance? If so, when are these spacecraft manifested and is the TOSC contractor required to provide security planning and implementation?	Currently, there are no spacecraft utilizing Special Nuclear Material manifested. TOSC responsibility for security is coordination and scheduling as stated in PWS Section 5.2.1. If future missions require Special Nuclear Material, additional planning would be marginal.
117	Attachment J-01	5.4		43	Will the TOSC contractor be expected to get the hazardous permits required to transport a vehicle that contains hazardous commodities (NH3, N2H4 and high pressure GN2 and GHe)?	Two types of permits will be required 1) Special permit (for transport of hazardous materials in a non-test/non-approved DOT shipping container and 2) over-the-road permits required by each individual state that the transport goes through.  NASA and MPCV OEM (Lockheed Martin) will be responsible for the Special Permit (1). TOSC will be responsible for the over-the-road permits (2).  The RFP will be updated for clarification.
118	Attachment J-01	5.4		43	Per the introductory descriptive text for PWS 5.4, Non-hazardous and hazardous processing and propellant servicing will occur in the MPCV offline processing facility.  Appendix 05 (Government-Furnished Facilities) does not include the "MPCV offline processing facility". Please clarify.	The final determination of the MPCV offline processing facility has not been made, but is expected to be in the KSC industrial area. The "MPCV offline processing facility" is a generic designation and is not a facility that can be specified in PWS Appendix 5.
119	Attachment J-01	5.4.4		45	For contingency or off-nominal landings, the contractor shall accompany the NASA rapid response team to the retrieval site to perform initial post-abort processing of the CM. Are the contractor security personnel part of the NASA rapid response team?	For proposal pricing, the offeror should not assume an off-nominal landing. If an off-nominal landing occurs, the contractor may be requested to provide security per PWS Section 1.3.1.
120	Attachment J-01	5.4.5		45	How will the TOSC contractor assess the labor required as part of the decontamination that allows the CM to be returned to the O&C Building? What level of disassembly is required? Is the contractor required to ship removed hardware to its owner? Will the contractor be required to develop and provide a post-mission assessment of vehicle performance?	Refer to CxP72149-03 in the bidders' library, which is referenced in Attachment L-01 for processing requirements.  Post-mission assessment of vehicle performance is not part of TOSC scope.
121	Attachment J-01	5.5.8.3		14	Comment: A document titled "The Launch Team Design Team White Paper" is referenced in Attachment L.01 Workload Indicators, PWS section 5.5.8.3, on pg.14. A document "Launch Team Design Team report" is referenced on pg.126 of the L.22 Mission Suitability Instructions as being in the Bidder's Library. We are unsure whether this is one document or two and we are unable to find these documents in the library.	Both titles cited refer to the same document. The RFP will be updated to reference CxP-72149-03 Ground Operations Planning Document: Volume 3: Operations, Appendix D, which is in the bidders' library.
122	Attachment J-01	6.1.1		46	Will the Government provide certification criteria from the Government or OEMs? Contractor needs to know what new and modified ground system certification processes are from the Government and OEM.	The KSC certification process is defined in KDP-P-2713. Additional ESD Certification requirements will be provided when project requirements are levied during contract performance.
123	Attachment J-01	6.2		51	Appendix 9 TOSC Authorized Projects was not provided with the DRFP. When will Appendix 9 be released to determine the level of support required to provide studies, designs, implementation, verification, and validation?	PWS Appendix 9 will be populated during contract performance as projects are authorized. There will be no specific projects identified in the RFP. The RFP will be updated for clarification.

No.	Document	Section	Paragraph	Page No.	Question	Response
124	Attachment J-01	6.2			Crew systems and Legacy GS V&V phasing Based on our review of the PWS and WLI we are not clear of the comprehensive list which legacy systems for SLS are included in PWS 6.2 and what would be their status at turnover to TOSC, for example, a crawler could be either handed over to TOSC as ready for SLS or still requiring upgrade completion.	Significant modification of any legacy ground system will be considered a NASA-managed project. Modifications to existing legacy systems may be performed by TOSC or other entities. The TOSC requirements for supporting all NASA-managed projects are stated in PWS Section 6.2.  Any NASA-managed legacy ground system modifications performed by TOSC will be added during contract performance via task order or a contract change per the requirements of PWS Section 6.2.1, 6.2.2, or 6.2.3, and will be listed in PWS Appendix 9.  Legacy ground systems modification activities will deliver a fully functional system ready for verification and validation.  The RFP will be updated for clarification.
125	Attachment J-01	6.3		48	Will the Government provide the annual maintenance hours associated with ground systems operations, maintenance, and corrosion control?	No, historical data is not representative of TOSC work scope. Aggregate hours are dependent upon offeror's approach.
126	Attachment J-01	6.3		52	Is the intent of the government to require RCM per NPR 8831.2E Facilities Maintenance and Operations Management?	Yes, the contractor is required to comply with NPR 8831.2.
127	Attachment J-01	6.3.3		53	"The contractor shall operate ground systems as necessary to maintain operator proficiency or certification, and assure the continued readiness of the systems."  Is its NASA's intent to keep those systems at their current certification levels? For example: The VAB bridge cranes are load tested @ 100% rated load annually to retain their certification to lift flight hardware. The government could relax those requirements and do it every two or three years and save on maintenance costs while still having a viable crane. Once the hard need was identified, a 100% load test could be conducted at that time to restore the certification to its full level.	As specified in NASA-STD-8719.9 referenced in PWS Section 6, the TOSC contractor shall maintain certification consistent with system usage. This standard provides flexibility in certification requirements based on systems usage classification.
128	Attachment J-01	6.3.3		53	Assuming that the maintenance and sustaining engineering is done by another Base contractor; to what extent is the TOSC contractor responsible for compliance of Mobile Equipment to the NASA Lifting Standard; <i>NASA-STD-8719.9</i> ?	For mobile equipment operated by TOSC and maintained and sustained by ISC, TOSC shall comply with operational requirements of the lifting standard.
129	Attachment J-01	6.4.1		54	Will the KSC Pressure System Manager's Risk-Based Plan, referenced in the TOSC DRFP, Attachment J-01, PWS, 6.4.1, pg.54, be provided in the Bidder's Library?	Yes, the plan has been provided in the bidders' library under the file name "KSC_PVS_Risk-Based_Plan.pdf".
130	Attachment J-01	6.4.1		54	In reference to the statement that the contractor shall implement and maintain certification and in-service inspection plans for PVS assigned in Appendix 8 Pressure Vessels Systems. The majority of Pressure Vessel Systems identified in Appendix 8 reflect that they are not fully compliant with NASA-STD-8719.17A. The Action Category indicates to "Use As Is" Is the expectation to bring the identified Pressure Vessel Systems up to full compliance with NASA-STD-8719.17A?	Yes, the TOSC contractor shall bring the PVS into compliance with NASA-STD-8719.17 as scheduled per Appendix 8 under the "Risk-Based Recertification Date" column.
131	Attachment J-01	7		56	Does the depot-level manufacturing and repair capability make reference to the off-site NASA Shuttle Logistics Depot (NSLD)?	No, the "Depot-level manufacturing and repair" requirement does not refer to the NSLD. TOSC requirement for depot-level manufacturing and repair refers to the NSSD capability as identified in PWS Appendix 6.

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132	Attachment J-01	7.2		56	Does reference to the contractor performing acquisition logistics for new or modified systems including identification of initial parts lay-in encompass facilitating provisioning conferences and travel to OEMs?	Yes, provisioning conferences and travel to OEMs are part of TOSC logistics scope. These activities are included in the costs identified in L.23 Section 5(f) General Travel and Training.
133	Attachment J-01	7.2		56	Does the reference to performing Logistics Support Analysis (LSA) apply to flight hardware, non-flight hardware, or both?	TOSC LSA scope is specific to non-flight hardware.
134	Attachment J-01	7.3			The PWS states that the contractor shall perform depot-level repair, refurbishment, & manufacturing required to support GS functionally for ISS, LSP, 21CGS, MPCV, and SLS. Can NASA provide specific WLIs or an LOE for the required amount of support that is expected for this PWS area?	No, workload indicators will not be provided. Historical data is not representative of future work. The amount of support to meet the requirements of PWS Section 7.3 is highly dependent on the offeror's approach for maintaining and sustaining ground systems, as listed in OMEU.
135	Attachment J-01	7.4		57	Is it the Government's intention that SATERN be used for all training other than Area Access and IT Security? PWS 7.4 says "The contractor shall utilize Government-furnished training as stated in Appendix 14 Government-Furnished Services", and Appendix 14 states that SATERN is a "learning management system for completion and tracking of Area Access and Security Awareness (IT Security, SBU, etc.) courses.	No, per PWS Appendix 14, SATERN is intended to be used by contractor personnel for Area Access and Security Awareness (IT Security, SBU, etc.) training.
136	Attachment J-01	7.5.1			Will the Government provide individual seat licenses and software maintenance as needed for ISS Inventory Management System, GOLD™? What is the operational system platform for GOLD™?	There are no licensing requirements to utilize GOLD.  GOLD is a web-based software application that provides access to the ISS logistics database.
137	Attachment J-01	7.5.1		58	"For ISS, the contractor shall utilize or interface with the JSC ISS Inventory Management System, GOLD™."  (1) Is the contractor responsible for maintaining inventory in the JSC ISS Inventory Management System, GOLD™?  (2) Is the contractor responsible for developing and maintaining electronic interfaces from the contractor's Supply Chain Management System to the JSC ISS Inventory Management System, GOLD™?	1) Yes, the contractor must maintain within GOLD those items currently in GOLD and assigned to TOSC.  2) No, an electronic interface to GOLD is not required. The offeror may utilize an electronic interface or implement another alternative.
138	Attachment J-01	7.5.1		58	"The contractor's inventory management system shall either utilize or be capable of interfacing with the NASA Material Management Initiative (MMI) system."  (1) Is the contractor responsible for maintaining inventory in the NASA MMI system?  (2) Is the contractor responsible for developing and maintaining electronic interfaces from the contractor's Supply Chain Management System to the NASA MMI system?  (3) Will the government provide detailed technical information on the MMI system?	1) Yes, as specified in PWS Section 7.5.1, the TOSC contractor must update TOSC data in the MMI. However, the contractor may manage TOSC inventory in an independent system.  2) An interface to MMI is required and the offeror may utilize an electronic interface or implement another alternative.  3) Yes, more detailed information on the MMI system will be provided in the Bidders' Library.
139	Attachment J-01	7.5.1		58	In reference to the statement that the contractor shall schedule, assemble and deliver materials required for work order kitting. Request clarification if the contractor or other agency will perform the kitting process?	The TOSC contractor shall perform kitting in support of their processes and systems, including kitting flight hardware when received loose from the OEM.

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140	Attachment J-01	8.5		65	Is NASA expecting the TOSC contractor to provide marketing services to potential commercial customers outside of KSC? Provide or clarify the roles, responsibilities and expectations between TOSC contractor and NASA.	No, there is no requirement in PWS Section 8 to market TOSC services and assets to external customers.
141	Attachment J-01				Several references are made to supporting use of simulators and emulators throughout the PWS, However no specific references or details are provided. More information is needed to assess the required scope, skills and activities needed to meet the requirement. Please clarify with additional information and detail.	The ISS has several emulators and simulators and those are identified along with responsibilities in PWS Appendix 7 OMEU.  TOSC will develop the launch team training simulations in concert with NASA.  An EXPRESS Rack Simulator and ELC simulator are referenced in the PWS for information only. These will be operated by NASA and will not be maintained or sustained by TOSC.
142	Attachment J-01				How do tri-programs interact with TOSC, are they all customers?	This will be addressed at the Pre-solicitation Conference. Presentation materials will be posted on the TOSC website.
143	Appendix 1	DR 1.1-5			For which facilities, or for how many, will the TOSC contractor be required to provide documentation of "facility evacuation exercises and drills"?	An evacuation plan and drills are required for facilities with occupancy of 10 or more TOSC employees per KNPR 8715.2 and KDP-KSC-P-3001. Note: The contractor providing fire services for the Center (KPSC) maintains documentation on all KSC facilities required to have an annual fire drill.
144	Appendix 1	DR 1.1-5			If the "Emergency Management Plan shall document the evacuation exercise procedures in each flight hardware hazardous operations" facility, is the TOSC contractor also responsible for developing an Emergency Preparedness Document (EPD) for each of these facilities as well?	TOSC shall prepare Emergency Procedures Documents as required by KNPR 8715.2 and KDP-KSC-P-3014.
145	Appendix 1	DR 1.1-6			Initial submittal is required at contract start minus 90 days. The contract phase-in period is specified at not exceeding 60 days in Section L-22, MA-6. Does the DR period reflect NASA's intent?	No. RFP DR 1.1-6 block G will be revised to state "90 days after contract start" for clarification.
146	Appendix 1	DR 1.1-6			Define "NASA's mission-essential operations" and "functions during an emergency situation."	There are currently no Mission Essential Infrastructure (MEI) within TOSC scope, nor mission-essential operations or functions associated with MEI.  NASA KSC Protective Services will continue to re-evaluate the requirements for MEI at KSC and will update when appropriate. It is likely that some TOSC flight hardware processing systems will be designated MEI when KSC begins flight hardware processing for SLS and MPCV.  The RFP DRs 1.1-6 and 1.1-7 will be updated.
147	Appendix 1	DR 1.1-6			Define the "mission-essential NASA facilities, equipment, vital records, and other assets" that must be protected.	There are currently no Mission Essential Infrastructure (MEI) within TOSC scope.  NASA KSC Protective Services will continue to re-evaluate the requirements for MEI at KSC and will update when appropriate. It is likely that some TOSC flight hardware processing systems will be designated MEI when KSC begins flight hardware processing for SLS and MPCV.  The RFP DRs 1.1-6 and 1.1-7 will be updated.
148	Appendix 1	DR 1.1-6			Are NASA resources, such as the KSC Emergency Operations Center (EOC), assumed to be up and operational as part of the "available field infrastructure" during a KSC emergency situation?	The EOC is activated upon a known emergency or during a planned event at the discretion of the incident commander. Minor incidents or investigations will not require the EOC.

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149	Appendix 1	DR 1.1-7			Is it correct that the TOSC contractor is expected to develop, test, and provide a report on the contractor's COOP, all within 120 days of the contract start?	Yes, the requirements must be satisfied 120 days after contract start.  Additionally, there are no existing Mission Essential Infrastructure (MEI) within TOSC scope. Attachment L-01 <i>Workload Indicators</i> will be updated to indicate a frequency for producing and testing a COOP.
150	Appendix 1	DR 1.2-7			Block G requires initial submittal at contract start + 30days while Block J indicates the plan is due in the eighth month of the calendar year, with monthly updates. Should these be considered two submittals (initial, final) or a single submittal to satisfy both requests?	There are two plans required by DR 1.2-7 in the first year. The DR requires an initial submission within 30 days of contract start (Block G), which covers the initial performance year; and a subsequent submission (Block J), during the eighth month of the same calendar year, for the following performance year.
151	Appendix 1	DR 1.3-1			Will the requirements of the KSC Area Permit Program for facility access be in place for TOSC?	Yes, DR 1.3-1 and Appendix 2 will be updated to include KNPR 1600.1 as a compliance document.
152	Appendix 1	DR 1.3-1			Block G. Initial Sub states "30 days of contract start"  Does the Government mean "30 days after contract start"	Yes, the initial submit date, Block G, will be revised to read "30 days after contract start" in the RFP.
153	Appendix 1	DR 4.2-1			In TOSC DRFP, Appendix 01, DR 4.2-1 Configuration Management Plan, pg.2, there is the statement "The Plan shall be prepared consistent with the following documents:". However, there are no following documents. Are the compliance documents, those listed in the statement above the statement in question, also the preparation documents?	The sentence in question will be removed in the RFP.
154	Appendix 1	DR 6.3-1			Regarding TOSC DRFP Attachment J-01, PWS, Appendix 01, Data Requirement Description, DR 6.3-1, will NASA define the driving requirement(s) for the annual maintenance performance and cost report?	Maintenance performance and cost data is required for contract performance evaluation, budget planning and forecasting, performance trending of hardware and systems, and Agency reporting requirements.
155	Appendix 2				Is NASA Interim Directive 1600-95, NASA Identity and Credential Management a compliance document for TOSC?	Yes, this NASA Interim Directive establishes implementation requirements as set forth in NASA Policy Directive (NPD) 1600.2, NASA Security Policy, which is a compliance document for TOSC. PWS Section 1.3.1 and DR 1.3-1 will be updated in the RFP to include NM 1600-95 as a compliance document.
156	Appendix 3				SLS/MPCV show launch in Dec of FY18 and FY22. To offline process and integrate the hardware, the various elements will be produced by other contractors and prepared for delivery. Will delivery assumptions and milestones be provided?	Yes, the RFP will be updated to include flight hardware delivery dates in Attachment L-01 for the applicable sections.
157	Appendix 3				CRS (Orbital at Wallops) shows two (2) flights/year beginning in FY13. We assume this means processing for 14 science payloads per flight for transportation to Wallops for launch. We could not find a reference for Wallops support by name in the PWS. Please clarify.	The assumption of processing for 14 science payloads per flight prior to transportation to Wallops for launch is correct. However, TOSC is not responsible for science payload transportation to Wallops.
158	Appendix 3				Science Payloads (b) - Do the Science Payloads include the Life Science Payloads, the Non-Life Science, and the Research Payloads? If so, is there a further breakdown of the number of payloads for each of the above categories of payloads?	All payloads are included in the Utilization payloads. Life science payloads are a specific class of utilization payloads and research is a sub-class of life science payloads.  The RFP PWS will be modified to clarify this relationship. Additional manifest data regarding the different classes and categories of payloads is available in the bidders' library ( <i>ISS Payload Integration Process Primer</i> ).

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159	Appendix 3				NORS RTA's - The Draft PWS issued with the DRFP section 5.1.1.2 addresses NORS processing but does not address RTA processing. Is there RTA processing required beyond/in addition to the NORS processing identified in the Draft PWS?	NORS is a system by which NASA will replenish the nitrogen and oxygen supply on the ISS. The RTA is the COPV tank that will be serviced by TOSC with GO2 and GN2 to support NORS. Servicing requirements are stated in PWS Section 5.1.1.2.  Additionally, the Flight Support Equipment (FSE) for the RTA tank will require minimal processing (i.e., closeouts and foam packing) after COPV fill per PWS Section 5.1.1.1.  The RFP will be updated for clarification.
160	Appendix 3				Are the 6 Direct-mount batteries referenced in the Manifest considered unpressurized ORU's with respect to the processing requirements identified in section 5.1.1.1 of the Draft PWS issued with the DRFP?	Yes, the batteries referenced are unpressurized ORUs.
161	Appendix 3				The Manifest does not indicate any test flight activity. Has NASA determined or indicated what role the TOSC Contractor will support on any test flights?  Is NASA anticipating directing all this work to the OEM's without any support from the TOSC contract team?  Please clarify with requirements / workload indicators.	There are no approved manifest requirements beyond those reflected in PWS Appendix 3.  If additional flights are required, the TOSC responsibilities will be assessed at that time.
162	Appendix 4	PPS Flight Hardware Worksheet			There is no reference to PPS Flight Hardware processing in the Draft PWS. There is a reference to PPS in H.20 POST PRODUCTION SUPPORT (PPS) PROPERTY MANAGEMENT, but there are no processing requirements in H.20. Please clarify the Draft PWS requirement under section 5.1.1.1 "The contractor shall provide ORU standalone servicing and checkout for hardware identified in Appendix 4 ISS Flight Certified Hardware." as it relates to PPS.	As described in PWS Section 7.5.2, the TOSC contractor will be the caretaker of the PPS hardware for the ISSP. The TOSC contractor responsibilities are logistics and shipping functions for PPS hardware.
163	Appendix 5				Has there been any consideration to add the Parachute Refurbishment Facility (PRF) capability to TOSC scope?	The PRF has been considered and will not be added to the TOSC scope.
164	Appendix 5				This appendix identifies the TOSC contractor as being the Facilities Integrator for the following buildings; K6-1995, K6-1996G, K6-1996I and K6-1996M, all of which are used in support of Heavy Equipment maintenance.  Will the TOSC contractor be doing maintenance on portions of the Heavy Equipment fleet? Or will TOSC be responsible for the integration of those buildings which will be used by the base contractor performing maintenance on the entire Heavy Equipment fleet?	No, TOSC scope does not include maintenance of heavy equipment. Additionally, TOSC contractor will not be responsible for the integration within the buildings which are primarily used by ISC for heavy equipment activities. Appendix 5 will be updated in the RFP.
165	Appendix 6				With the release of the Draft RFP, NASA added a Pneumatics Shop, K6-1346 in the Appendix 5, Government Furnished Facilities. This shop did not appear to be added to the Appendix 6, TOSC Shops & Laboratories. What are the TOSC responsibilities for this shop?	Pneumatic component fabrication is required to operate, maintain and sustain TOSC-assigned ground systems. PWS Appendix 6 will be updated in the RFP.
166	Appendix 7	PHSF			PMN # S70-1094-C1 shows Maintenance and Sustaining by ISC. Is this correct?	No, operations, maintenance and sustaining engineering for this equipment is TOSC scope. The OMEU will be updated.

No.	Document	Section	Paragraph	Page No.	Question	Response
167	Appendix 7	PHSF			PMN # S70-1234 shows Maintenance by MSFC. Is this correct?	No, operations, maintenance and sustaining engineering for this equipment is TOSC scope. The OMEU will be updated.
168	Appendix 7	Transporters			The "Transporters" tab lists P70-1107 (Payload Transporters) twice with a total quantity of 3 Payload Transporters. Is this correct?	No, there are only two payload transporters. The OMEU will be updated.
169	Appendix 7				On the Appendix 7 page entitled "General", the TOSC contractor is twice identified as being responsible for Operations, Maintenance and Sustaining for the entire crawlerway while on another part of the "General" page and on the "Pads A & B" page the gravel part of the crawlerway is identified as being the Maintenance responsibility of another Base contractor. Please provide clarification.	The maintenance and sustaining responsibilities for the Crawlerway (i.e., from the VAB floor to and including the pad hardstand surface) change with location. The OMEU correctly reflects responsibilities.
170	Appendix 7				On the Appendix 7 page entitled "Cranes & Doors"; there are a number of Load Cells and Load Cell calibrators listed.  Is this equipment, which was part of the Calibration Lab, part of the TOSC work scope?	Load Cells are included as TOSC scope as defined in the PWS Appendix 7 OMEU and are not part of the Calibration Lab.  The load cell calibrator listed in the OMEU is maintained by ISC and will be removed from the OMEU.  Calibration is a government-furnished service as defined in PWS Appendix 14.
171	Appendix 7				On the Appendix 7 page entitled "General", the TOSC contractor is identified as having Operations, but not Maintenance or Sustaining on CWLIS in the LCC while on the "Pads A & B" page the TOSC contractor is identified as having Operations, Maintenance and Sustaining responsibilities for CWLIS at the Pad.  Is it NASA's intention to have two different groups responsible for the Maintenance and Sustaining for different parts of the CWLIS system?	No, TOSC scope includes operations, maintenance and sustaining engineering of CWLIS regardless of location. The OMEU will be updated.
172	Appendix 7				The Cranes-Doors tab appears to be a summary of the OMEU responsibilities for all cranes & doors; however there are cranes and doors missing from the tab. For example there are 7 cranes identified for M7-0360 (SSPF) under the "SSPF" tab, but there are no cranes listed under the "Cranes-Doors" tab for M7-0360. There are MPPF cranes and doors listed under both the "MPPF" tab and the "Cranes-Doors" tab. Please clarify the intent of the "Cranes-Doors" tab.	Cranes and doors listed on other tabs of the PWS Appendix 7 OMEU will be aggregated in the cranes & doors tab of the OMEU.
173	Appendix 7				M7-1357 MULTI-OPERATION SUPPORT BUILDING is listed in APPENDIX 5 GOVERNMENT-FURNISHED FACILITIES.  There are systems in M7-1357 that directly support PHSF operations (communication racks, ARS components, operation consoles, etc.). M7-1357 was not addressed in Appendix 07. Is it the intent of the government to omit the M7-1357 systems from the TOSC OEMU?	There is no TOSC processing scope within the MOSB. The MOSB will be removed from PWS Appendix 5 in the RFP.
174	Appendix 7				Appendix 7 shows seven (7) Crawler Transporter Facilities and Appendix 5 shows only three (3) Crawler Transporter Facilities.  Which facility listing should be considered Government Furnished Facilities?	PWS Appendix 5 is the listing of Government-Furnished Facilities. The facility cross reference tab in the PWS Appendix 7 OMEU was used for formulation of the OMEU and was not intended as a list of Government-furnished facilities. The RFP will be updated to remove the facility cross-reference worksheet from PWS Appendix 7.

No.	Document	Section	Paragraph	Page No.	Question	Response
175	Appendix 7 and Appendix 14				On the Appendix 7 page entitled "General", the TOSC contractor is identified as being responsible for Heavy Equipment fleet Operations, Maintenance and Sustaining while Appendix 14 states that Maintenance and Sustaining for the HE fleet is provided by another Base contractor.  Will TOSC or ISC be responsible for Maintenance and Sustaining?	ISC will be responsible for maintenance and sustaining of heavy equipment. The OMEU has been updated to correctly reflect TOSC and ISC responsibilities.
176	Appendix 10 Appendix 11 Attachment J-02	L.23	Section 4 (a)(1)	137	In order to facilitate proposed costing of ISS transition and retirement, will ISS property encompass all flight material, non-flight material, and ISS sustainer equipment as identified in Appendix 10 and Appendix 11, or will certain categories of equipment be excluded for future retention?	The workload indicator will be updated to reflect that all ISS hardware will be dispositioned and excessed as part of the ISS transition and retirement option.
177	Attachment J-02				The TOSC DRFP, Section B, priced options: CLIN 2-TPSF, CLIN 3-ISS T&R, and CLIN 4-Marine Vessel O&M have no specific performance work statement requirements. Will the Government base their selection on the cost data alone associated with these priced options or should bidders specifically address their approaches to each option within the TOSC mission suitability volume?	The specific requirements for priced options are defined under Attachment J-02. The RFP will be updated for clarification on evaluation of priced options.
178	Attachment J-08				What rules apply with regards to Collective Bargaining Agreements (CBA)?	Offerors must comply with The Service Contract Act and implementing regulations.
179	Attachment J-08				Is seniority data and other workforce demographics information (e.g., length of service) available for union and non-union personnel?	Bidders' library will be updated to include available information.
180	Attachment J-08 ULA/IAMAW CBA	Article 13			Article 13 of the CBA agreement between ULA & IAMAW references a Pension Plan. Are details of the plan available? Is the plan fully funded? If not, what is the potential liability and how should this be addressed in offeror's proposal? Will there be any guidance on the going forward cost of the pension plan?	ULA IAMAW CBA is not applicable to the TOSC contract.
181	Ground Operations Planning Document: Volume 3: Operations	4.2.2.9.2		46	NASA has not identified any LCS related activities within the PWS. Will the TOSC contract be performing any LCS related development or V&V activities? Provide clarification and/or workload indicator for LCS development/V&V.	During development of LCS, the TOSC contractor will provide vehicle processing and ground systems operational expertise to the developer. TOSC responsibilities during the V&V process are the same for all 21 CGS systems including LCS. After the Operational Readiness Review, TOSC is responsible for all aspects of operations and maintenance for all 21 CGS systems including LCS.  Information pertaining to V&V activities will be provided in the bidders' library.
182	CxP 70201	4.1.1 and 7.0		16 and 59	This document does not currently address Business Architecture but aligns capabilities when the business architecture matures. How will business applications within the Business Architecture be funded and implemented? IDIQ contracts or this contract? What is the timeline for business applications? Will NASA require the development of custom business applications as soon as the underlying architecture is ready? Provide funding sources and timeline for business applications if known. Acknowledge that no business applications are required to be developed on this contract if this is a true statement.	The CxP 70201 document was posted to the bidders' library to provide offerors insight into software available via PWS Appendix 14 Government-furnished services (e.g., ICE, CxIRMA, CxPRACA).