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SOLICITATION AMENDMENT

MODIFICATION DE L'INVITATION

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

Vendor/Firm Name and Address

**Raison sociale et adresse du
fournisseur/de l'entrepreneur**

Issuing Office - Bureau de distribution

Electronics, Simulators and Defence Systems Div.

/Division des systèmes électroniques et des systèmes de
simulation et de défense

11 Laurier St. / 11, rue Laurier

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Gatineau

Québec

K1A 0S5

Title - Sujet Underwater Warfare Suite Upgrade	
Solicitation No. - N° de l'invitation W8472-135462/C	Amendment No. - N° modif. 012
Client Reference No. - N° de référence du client W8472-135462	Date 2017-07-04
GETS Reference No. - N° de référence de SEAG PW-\$\$QF-101-26284	
File No. - N° de dossier 101qf.W8472-135462	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2017-08-04	
Time Zone Fuseau horaire Eastern Daylight Saving Time EDT	
F.O.B. - F.A.B. Specified Herein - Précisé dans les présentes	
Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input checked="" type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Michael Rancourt	Buyer Id - Id de l'acheteur 101qf
Telephone No. - N° de téléphone (819) 420-1734 ()	FAX No. - N° de FAX (819) 956-5650
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: See Herein	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

Solicitation No. - N° de l'invitation W8472-135462/C	Amd. No. - N° de la modif. 012	Buyer ID - Id de l'acheteur 101qf
Client Ref. No. - N° de réf. du client W8472-135462	File No. - N° du dossier 101qfW8472-135462	CCC No./N° CCC - FMS No./N° VME

This solicitation amendment 12 is to respond to provide clarifications and answer bidder questions.

Clarification 1

The Labour Category rates table under Volume 2 Schedule A, Article 4 Task Authorizations (Labour Rates and Mark-Up Rates) contains incorrect validity date ranges for years 2025, 2026 and 2027.

DELETE the first row of the Labour Category table under Volume 2 Schedule A Article 4 Task Authorizations (Labour Rates and Mark-Up Rates), in its entirety, and

REPLACE the above deleted row with the following:

Labour Category	2017*	2018*	2019*	2020*	2021*	2022*	2023*	2024*	2025*	2026*	2027*
	April 1, 2017 to March 31, 2018	April 1, 2018 to March 31, 2019	April 1, 2019 to March 31, 2020	April 1, 2020 to March 31, 2021	April 1, 2021 to March 31, 2022	April 1, 2022 to March 31, 2023	April 1, 2023 to March 31, 2024	April 1, 2024 to March 31, 2025	April 1, 2025 to March 31, 2026	April 1, 2026 to March 31, 2027	April 1, 2027 to March 31, 2028

Clarification 2

As of May 1, 2017, the Bank of Canada has changed the time at which it publishes foreign exchange rates. Rates will no longer be published at noon and instead will be published by 16:30 Eastern Time (ET).

DELETE Volume 2 Article 10.2 Exchange Rate Fluctuation Adjustment, paragraph (4), in its entirety, and

REPLACE the above deleted paragraph with the following:

- The initial exchange rate is set as published by the Bank of Canada, thirty (30) business days prior to the solicitation closing date.
- For goods, the exchange rate for adjustment will be the rate as published by the Bank of Canada on the date the goods were delivered. For services, the exchange rate for adjustment will be the rate on the last business day of the month for which the services were performed. For advance payments, the exchange rate for adjustment will be the rate on the date the payment was due. The most recent rate will be used for non-business days.

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Clarification 3

Volume 1 Bidders Instructions and Requirements allows bidders to use the Exchange Rate Fluctuation Risk Mitigation process. Volume 2 contains the Exchange Rate Fluctuation Adjustment clause, however Volume 3 does not.

INSERT the new Volume 3 Article 11.1 Exchange Rate Fluctuation Adjustment, after existing Article 11:

11.1 Exchange Rate Fluctuation Adjustment

1. The foreign currency component (FCC) is defined as the portion of the price or rate that will be directly affected by exchange rate fluctuation. The FCC should include all related taxes, duties and other costs paid by the Bidder and which are to be included in the adjustment amount.
2. For each line item where a FCC is identified, Canada assumes the risks and benefits for exchange rate fluctuation, as shown in the Basis of Payment. For such items, the exchange rate fluctuation amount is determined in accordance with the provision of this clause.
3. The total price paid by Canada on each invoice will be adjusted at the time of payment, based on the FCC and the exchange rate fluctuation provisions in the contract. The exchange rate adjustment amount will be calculated in accordance with the following formula:

Adjustment = $FCC \times Qty \times (i1 - i0) / i0$ where formula variables correspond to:

FCC = Foreign Currency Component (per unit)

$i0$ = Initial exchange rate (CAN\$ per unit of foreign currency [e.g. US\$1])

$i1$ = exchange rate for adjustments (CAN\$ per unit of foreign currency [e.g. US\$1])

Qty = quantity of units

4. The initial exchange rate is set as published by the Bank of Canada, thirty (30) business days prior to the solicitation closing date.
5. For goods, the exchange rate for adjustment will be the rate as published by the Bank of Canada on the date the goods were delivered. For services, the exchange rate for adjustment will be the rate on the last business day of the month for which the services were performed. For advance payments, the exchange rate for adjustment will be the rate on the date the payment was due. The most recent rate will be used for non-business days.

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6. The Contractor must indicate the total exchange rate adjustment amount (either upward, downward or no change) as a separate item on each invoice or claim for payment submitted under the Contract. Where an adjustment applies, the Contractor must submit with their invoice form PWGSC-TPSGC 450, Claim for Exchange Rate Adjustments.
7. The exchange rate adjustment will only be applied where the exchange rate fluctuation is greater than 2% (increase or decrease), calculated in accordance with column 8 of form PWGSC-TPSGC 450 (i.e [i1 - i0) / i0]).
8. Canada reserves the right to audit any revision to costs and prices under this clause.

Clarification 4

This clarification serves to update the Request for Proposal Standard Instructions.

DELETE Volume 1 Article 2.1 Standard Instructions, Clauses and Conditions, in its entirety, and

REPLACE the above deleted paragraph with the following:

2.1 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual issued by Public Works and Government Services Canada.

(<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>)

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The 2003 (2017-04-27) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Question 1

Reference: Volume 2 Annex B

With the complex nature of naval integration programs, it is normal to have some software and/or hardware deficiencies which are ultimately remedied throughout the trial and testing processes. Within Vol 2 Annex B, the Contract does not clearly define criteria for the allocation and categorization of System Problem Reports (SPRs, e.g. Severity, Priority), nor of their influence on system Acceptance. Does CANADA agree that specific guidance relative to SPRs is required in order to ensure that Acceptance is clearly defined and understood? Assuming CANADA mutually agrees that clearly defined Acceptance protocol is essential, will CANADA allow the Bidder to propose a process within its proposal response to describe how SPRs will be categorized, allocated and dispositioned?

Answer:

The existing acquisition requirements outline a high level framework for payments, milestones, acceptance, qualification and tracking, while also requiring other low level details to be defined and approved as part of contractual deliverables. It would be inappropriate at this stage to try to define a disposition/categorization framework for a low level tracking mechanism such as SPRs, in terms of influence over acceptance, in the absence of full insight into possible proposed solutions and other low level tracking frameworks that will also be required or appropriate. Volume 1 article 4.2 (d) informs bidders about contract document deliverable versions that need to be submitted for evaluation purposes, in difference from versions to be delivered once in contract.

Question 2

Reference: Volume 2 Annex A SRCL, Article 3.2.1.1.

Volume 2, Annex A, Article 3.2.1.1 (Physical Security within the IT Security Environment) states that "The equipment used to process the sensitive information must be either standalone or part of an authorized standalone network..." In our question regarding this article, we asked Canada to "Please confirm that in this requirement, "sensitive information" means only Protected B, SECRET (CEO), NATO SECRET, and Foreign Secret information. Any other artefacts generated under the project are not required to be processed on a stand-alone network."

The answer from Canada in Update 008 was: "Sensitive information means any classified or designated information, and any controlled-goods or International Trade in Arms Regulations (ITAR) information even if unclassified/not-designated."

NEW QUESTION:

Our company is registered with the Controlled Goods Program and maintains a Facility Security Clearance, granted by Canadian Industrial Security Directorate (CISD), which meets the Security Requirements Check List (SRCL) released with the subject RFP ("2 En UWSU Volume 2 Annex A Security Requirements Checklist.pdf").

Would the Crown please confirm whether the intention of this UWSU RFP requirement (Article 3.2.1.1) is for bidders to use a "standalone" network to process "any controlled-goods or International Trade in Arms Regulations (ITAR) information even if unclassified/not-designated"? This 'air gap' requirement for 'any' CGP and ITAR-controlled information would be a network security measure which is above and beyond CISD's current requirements and which would impose significant additional costs on the UWSU program due to the expenses associated to implement and maintain such a network.

Answer:

1) DELETE Volume 2 Annex A SRCL, IT Security Requirements Article 3.2.1.1, in its entirety, and

REPLACE the above deleted Article with the following:

3.2.1.1 Physical Security within the IT Security Environment

The equipment used to process the sensitive information must be either standalone or part of an authorized standalone network designated for the storage and processing of up to and including the level of Secret CEO, NATO Secret and Foreign Secret data related to the contract located in a(n) {Zone Type} Zone as outlined in the Treasury Board of Canada Secretariat (TBS) Operational Security Standard on Physical Security (OSSPS). This standalone network must only be used to process and store data related to contracts with DND and no other customer or party. Notwithstanding, it is sufficient for purely unclassified/not-designated Controlled Goods information related to the contract to be processed and stored in accordance with the security requirements of the Controlled Goods Program, if an appropriate Controlled Goods registration, clearance and certification is granted and maintained with the Canadian Industrial Security Directorate (CISD).

2) DELETE Volume 3 Annex A SRCL, IT Security Requirements Article 3.2.1.1, in its entirety, and

REPLACE the above deleted Article with the following:

3.2.1.1 Physical Security within the IT Security Environment

The equipment used to process the sensitive information must be either standalone or part of an authorized standalone network designated for the storage and processing of up to and including the level of Secret CEO, NATO Secret and Foreign Secret data related to the contract located in a(n) {Zone Type} Zone as outlined in the Treasury Board of Canada Secretariat (TBS) Operational Security Standard on Physical Security (OSSPS). This standalone network must only be used to process and store data related to contracts with DND and no other customer or party. Notwithstanding, it is sufficient for purely unclassified/not-designated Controlled Goods information related to the contract to be processed and stored in accordance with the security requirements of the Controlled Goods Program, if an appropriate Controlled Goods registration, clearance and certification is granted and maintained with the Canadian Industrial Security Directorate (CISD).

Question 3

Reference: Volume 3 Annex B, Appendix 2, DID-PMP-001 - UWSU-ISSC - Project Management Plan, para 10.3.8

Volume 3, Annex B, Appendix 2, DID-PMP-001 - UWSU-ISSC - Project Management Plan para 10.3.8 contains conflicting wording regarding the content to be submitted in the plan. CANADA is requested to clarify the wording to reflect the actual submission requirement.

As Written in ISS PMP DID-PMP-001 - UWSU-ISSC - Project Management Plan:

10.3.8 Preliminary Integrated Service Support (ISS) Management Plan

The Preliminary ILS Management Plan section must be prepared in the Contractor's format and must include the following information:

- a. A description of the overall ISS program;*
- b. A description of the Contractor's ISS program management and controls; and*
- c. A summary of the ISS program elements and a description how all ISS contract items will be delivered*

We believe CANADA's intent was for the text to read:

10.3.8 Preliminary In-Service Support (ISS) Management Plan

The Preliminary ISS Project Management Plan section must be prepared in the Contractor's format and must include the following information:

- a. A description of the overall ISS program;*
- b. A description of the Contractor's ISS program management and controls; and*
- c. A summary of the ISS program elements and a description how all ISS contract items will be delivered*

CANADA is requested to confirm the correct wording for this requirement.

Answer:

Note: French versions are correct. No French version changes required.

- | | |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 1) DELETE | Volume 3 Annex B Appendix 2 Data Item Descriptions, DID-PMP-001 - UWSU-ISSC - Project Management Plan, Article 10.3.8, in its entirety, and |
| REPLACE | the above deleted Article with the following:

10.3.8 Preliminary In-Service Support (ISS) Management Plan |

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The Preliminary ISS Project Management Plan section must be prepared in the Contractor's format and must include the following information:

- a. A description of the overall ISS program;
- b. A description of the Contractor's ISS program management and controls; and
- c. A summary of the ISS program elements and a description how all ISS contract items will be delivered.

Question 4

Reference: Volume 1 Annex D Appendix 10, Article 4.2.3.3.

Volume 2, SRD, SRD-71, paragraph 4.2.3.3 states: "All high voltage circuits must discharge to less than 30 volts within two seconds of power being removed". The requirement as written appears to be a simplified and slightly reworded version of the Electrical Safety requirements contained in MIL-STD-1472G para 5.3.1.8.2 written for communication equipment, which states: "There shall be a provision for discharging high-voltage circuits and capacitors to 30 volts within 2.0 seconds before maintenance personnel work on them." This simplified/modified definition provides undue constraints on equipment design against electrical shock, which would drive unnecessary costs and NRE.

Requirements for Safety against Electrical Hazards as per MIL-STD-1472 F para 5.13.7.1, MIL-STD-1472G para 5.7.9.1 as well as ASTM 1166 para 18.4.1 allow for a range of provisions that can be used in equipment design to ensure electrical shock safety for maintainers for high voltage equipment and ensure that the resulting amount of current that can flow to a person does not exceed safe limits. As the SRD already calls up MIL-STD-1472F, it is recommended that SRD-71 be reworded as per MIL-STD 1472F para 5.13.7.1.4 as follows to maintain the intent of the requirement (maintainer's safety) while allowing the range of recognized suitable provisions to be used by equipment OEMs to achieve the goal:

"All high voltage equipment shall provide Guards, grounding, interlocks, and warning placards to minimize exposing personnel to dangerous voltages or currents."

CANADA is requested to confirm SRD-71 will be amended as stated above.

Answer:

AMENDMENTS TO VOLUME 2 ANNEX C SYSTEM REQUIREMENTS DOCUMENT, AND VOLUME 1 ANNEX D APPENDIX 10 COMPLIANCE MATRIX
SYSTEM REQUIREMENTS DOCUMENT, ARE AS FOLLOWS:
(Changes are identified in yellow highlight)

- 1) DELETE Volume 2 Annex C Appendix 2 System Requirements Document Article 4.2.3.3 (SRD-71), in its entirety, and

REPLACE the above deleted Article with the following:

ID	Requirement Type
SRD-71	4.2.3.3 Personnel must be protected from electrical shock, with specific emphasis in consideration for dangerous voltages and currents, in accordance with MIL-STD-1472G section 5.7.9.1.6, and in a manner consistent with MIL-STD-1472G section 5.7.9.1. Mandatory

2) DELETE Volume 1 Annex D Appendix 10 Compliance Matrix System Requirements Document Article 4.2.3.3 (SRD-71), in its entirety, and

REPLACE the above deleted Article with the following:

ID	Requirement Type	Compliance Demonstration Method	Bidder's Response	Evaluation of Bidder's Response	Compliant (Y/N)
SRD-71	4.2.3.3 Personnel must be protected from electrical shock, with specific emphasis in consideration for dangerous voltages and currents, in accordance with MIL-STD-1472G section 5.7.9.1.6, and in a manner consistent with MIL-STD-1472G section 5.7.9.1.	A			

ADDITIONAL CLARIFICATIONS FOR VOLUME 2 ANNEX C AND VOLUME 1 ANNEX D RELATED TO MIL-STD-1472G ARE AS FOLLOWS:
(Changes are identified in yellow highlight)

1) DELETE Volume 2 Annex C Appendix 2 System Requirements Document Article 2.2.6.10 (SRD-958), in its entirety, and

REPLACE the above deleted Article with the following:

ID	Requirement Type
SRD-958	2.2.6.10 MIL-STD-1472G, DEPARTMENT OF DEFENSE DESIGN CRITERIA STANDARD, HUMAN ENGINEERING

DELETE Volume 1 Annex D Appendix 10 Compliance Matrix System Requirements Document Article 2.2.6.10 (SRD-958), in its entirety, and

REPLACE the above deleted Article with the following:

ID		Requirement Type	Compliance Demonstration Method	Bidder's Response	Evaluation of Bidder's Response	Compliant (Y/N)
SRD-958	2.2.6.10 MIL-STD-1472G, DEPARTMENT OF DEFENSE DESIGN CRITERIA STANDARD, HUMAN ENGINEERING	Information	N/A			

2) DELETE Volume 2 Annex C Appendix 2 System Requirements Document Article 3.8.1.3 (SRD-211), in its entirety, and

REPLACE the above deleted Article with the following:

ID	Requirement Type	Requirement Type
SRD-211	3.8.1.3 The UWSS operator workstations must be designed in accordance with Section 5.10 of MIL-STD-1472G for seated operation.	Mandatory

DELETE Volume 1 Annex D Appendix 10 Compliance Matrix System Requirements Document Article 3.8.1.3 (SRD-211), in its entirety, and

REPLACE the above deleted Article with the following:

ID	Requirement Type	Compliance Demonstration Method	Bidder's Response	Evaluation of Bidder's Response	Compliant (Y/N)
SRD-211	3.8.1.3 Les postes de travail des opérateurs du SCGSM doivent être conçus conformément aux exigences présentées à la section 5.10 de la norme MIL-STD-1472G concernant les opérations assises.	A			

3) DELETE Volume 2 Annex C Appendix 2 System Requirements Document Articles 3.8.2.1 (SRD-198), 3.8.2.2 (SRD-960), 3.8.2.2(a) (SRD-961), 3.8.2.2(b) (SRD-9636) in their entirety, and

INSERT the new Articles 3.8.2.1 (SRD198) and 3.8.2.2 (SRD-960), under existing Article 3.8.2 (SRD-167) with the following:

ID	Requirement Type
SRD-198	3.8.2.1 The design of the UWSS Operations Room configuration must be consistent with the requirements of MIL-STD-1472G.
SRD-960	3.8.2.2 The design of the UWSS Operations Room configuration and UWSS Operator workstations must accommodate a user population whose Anthropometric dimensions are described in the 2012-Canadian Forces Anthropometric Survey (CFAS).

DELETE Volume 1 Annex D Appendix 10 Compliance Matrix System Requirements Document Articles 3.8.2.1 (SRD-198), 3.8.2.2 (SRD-960), 3.8.2.2(a) (SRD-961), 3.8.2.2(b) (SRD-9636) in their entirety, and

INSERT the new Articles 3.8.2.1 (SRD198) and 3.8.2.2 (SRD-960), under existing Article 3.8.2 (SRD-167) with the following:

ID		Requirement Type	Compliance Demonstration Method	Bidder's Response	Evaluation of Bidder's Response	Compliant (Y/N)
SRD-198	3.8.2.1 The design of the UWSS Operations Room configuration must be consistent with the requirements of MIL-STD-1472G.	Mandatory	D			
SRD-960	3.8.2.2 The design of the UWSS Operations Room configuration and UWSS Operator workstations must accommodate a user population whose Anthropometric dimensions are described in the 2012-Canadian Forces Anthropometric Survey (CFAS).	Mandatory	A			

4) **DELETE** Volume 2 Annex C Appendix 2 System Requirements Document Article 3.9.8.1.2 (SRD-966), in its entirety, and

REPLACE the above deleted Article with the following:

ID	Requirement Type
SRD-966	3.9.8.1.2 The HMI must be designed and implemented in a manner consistent with the requirements of MIL-STD-1472G.

DELETE Volume 1 Annex D Appendix 10 Compliance Matrix System Requirements 3.9.8.1.2 (SRD-966), in its entirety, and

REPLACE the above deleted Article with the following:

ID	Requirement Type	Compliance Demonstration Method	Bidder's Response	Evaluation of Bidder's Response	Compliant (Y/N)
SRD-966	3.9.8.1.2 The HMI must be designed and implemented in a manner consistent with the requirements of MIL-STD-1472G.	D			

5) **DELETE** Volume 2 Annex C Appendix 2 System Requirements Document Article 3.9.16.1 (SRD-967), in its entirety, and

REPLACE the above deleted Article with the following:

ID	Requirement Type
SRD-967	3.9.16.1 Alerts must be implemented in a manner consistent with the requirements as stated in MIL-STD-1472G. Mandatory

DELETE Volume 1 Annex D Appendix 10 Compliance Matrix System Requirements 3.9.16.1 (SRD-967), in its entirety, and

REPLACE the above deleted Article with the following:

ID	Requirement Type	Compliance Demonstration Method	Bidder's Response	Evaluation of Bidder's Response	Compliant (Y/N)
SRD-967	3.9.16.1 Alerts must be implemented in a manner consistent with the requirements as stated in MIL-STD-1472G.	A			

END