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7 ième étage
Montréal
Québec
H5A 1L6
FAX pour soumissions: (514) 496-3822

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
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Issuing Office - Bureau de distribution
Travaux publics et Services gouvernementaux Canada
Place Bonaventure, portail Sud-Est
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7 ième étage
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Québec
H5A 1L6

Title - Sujet Space Technologies Development	
Solicitation No. - N° de l'invitation 9F063-140572/A	Amendment No. - N° modif. 004
Client Reference No. - N° de référence du client 9F063-140572	Date 2015-04-14
GETS Reference No. - N° de référence de SEAG PW-\$MTB-575-13154	
File No. - N° de dossier MTB-4-37358 (575)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-05-06	Time Zone Fuseau horaire Heure Avancée de l'Est HAE
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Jurca, Anca	Buyer Id - Id de l'acheteur mtb575
Telephone No. - N° de téléphone (514) 496-3378 ()	FAX No. - N° de FAX (514) 496-3822
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

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

PROJECT TITLE: Space Technologies Development

The above mentioned Request for Proposal (RFP) is hereby amended to:

1. make changes;
2. answer questions received.

1. For Priority Technology 2 - Light-weight high performance water color imaging spectrometer

On Page A-51, under Section 6.3 Detector array:

DELETE: [DA-006] Noise floor "Noise floor at max frame rate shall be < 100 e @ max frame rate"

INSERT: [DA-006] Noise floor "Noise floor at max frame rate shall be < 150 e @ max frame rate"

2. For Priority Technology 4 - Wireless Micro Sensor System for Crew Biometric Monitoring

Question 1: Can you elaborate the requirement MANDATORY-SEN-06 saying "shall be secured directly to the skin surface"? Can it be other kind than "band-aid" style sensors?

Answer 1 :

- Dry electrode technologies often used in garments are susceptible to movement artifacts;
- It is felt that for long duration exploration class missions, that care, cleaning and maintenance of garments will be difficult;
- This RFP does not specifically exclude the use of garments, however, it calls for the provision of low-profile wireless sensors that would be fixed to the skin to minimize or eliminate movement artifacts;
- The intent of this activity is to increase the TRL levels of emerging technologies.

Question 2: Is the 2 weeks autonomy really a strong use case? "Band-aid" stickers may be worn but existing technology such as hydrogel could cause irritation and would not be recommended for 2 consecutive sessions of 2 weeks. Moreover, the battery capacity for real-time transmission seems not to be technologically available for that autonomy.

Answer 2 :

- 2 week sensor attachment and power autonomy are mandatory requirements;
- Two weeks is based on estimated time that sensor could remain secured directly to the skin before exfoliation of the skin surface;
- The prototype is expected to provide a means of securing the sensor to the skin that, under normal conditions, would not cause skin irritation;

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- The intent of this activity is to increase the TRL levels of emerging technologies, including power technologies.

Question 3: 90% of the time for communication is required for real time monitoring. Is an event trigger a possible solution?

Answer 3:

- The requirement MANDATORY-COM-03 is that the system shall allow continuous monitoring of the selected parameters and that, for each hour, this is done at least 90% of the time, to allow for trending analysis;
- Transmission of data only when an event is detected is not acceptable.

Question 4: Can we have access to the conceptual study document to review the analysis or at least the summary? The one on which is based this RFP.

Answer 4:

- The study provided a high level concept and recommended technologies as to how continuous monitoring could be accomplished. The study was not provided as part of this RFP as it was felt that this may lead contractors to believe that this particular concept was the only one acceptable to the CSA. The CSA chose rather to list the main functional and performance requirements that it felt were achievable, and let bidders propose the best means of achieving these requirements.

Question 5: Q5- Is the 5mm thickness a real use case? With casing and battery, it can easily be bigger but still comfortable to the user. Is there already a targeted device?

Answer 5:

- There are no particular devices targeted in this RFP;
- Another requirement (MANDATORY-SEN-05) is that WSUs shall be comfortable and unobtrusive such that they will not interfere with clothing, daily activities, exercise and sleep. As this requirement is qualitative, the CSA felt the need to provide a quantitative requirement (MANDATORY-SEN-04).

On Page A-74, under "Functional characteristics and performance requirements":

DELETE: MANDATORY-SEN-04 Sensor Size: "Individual WSUs heights shall be 5 mm or less"
Note: The intent of this requirement is to minimize the WSU height as much as possible.

INSERT: TARGET-SEN-04 Sensor Size: "Individual WSUs heights should be 5 mm or less"
Note: The intent of this requirement is to minimize the WSU height as much as possible.

ALL OTHER TERMS AND CONDITIONS OF THE RFP REMAIN UNCHANGED.