

**RETURN BIDS TO:  
RETOURNER LES SOUMISSIONS À:**

**Bid Receiving  
PWGSC  
33 City Centre Drive  
Suite 480C  
Mississauga  
Ontario  
L5B 2N5  
Bid Fax: (905) 615-2095**

**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**  
THIS DOCUMENT CONTAINS SECURITY  
REQUIREMENTS.

**Vendor/Firm Name and Address**  
Raison sociale et adresse du  
fournisseur/de l'entrepreneur

**Issuing Office - Bureau de distribution**  
Public Works and Government Services Canada  
Ontario Region  
33 City Centre Drive  
Suite 480  
Mississauga  
Ontario  
L5B 2N5

<b>Title - Sujet</b> Weather Radar Replacement Solution	
<b>Solicitation No. - N° de l'invitation</b> K3D33-141144/B	<b>Amendment No. - N° modif.</b> 006
<b>Client Reference No. - N° de référence du client</b> K3D33-141144	<b>Date</b> 2015-07-20
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$TOR-018-6873	
<b>File No. - N° de dossier</b> TOR-4-37044 (018)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2015-09-30</b>	
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Pan, Long	<b>Buyer Id - Id de l'acheteur</b> tor018
<b>Telephone No. - N° de téléphone</b> (905) 615-2076 ( )	<b>FAX No. - N° de FAX</b> (905) 615-2023
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

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

Solicitation No. - N° de l'invitation

K3D33-141144/B

Client Ref. No. - N° de réf. du client

K3D33-141144

Amd. No. - N° de la modif.

006

File No. - N° du dossier

TOR-4-37044

Buyer ID - Id de l'acheteur

tor018

CCC No./N° CCC - FMS No/ N° VME

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Please see attached document.

**THE SOLICITATION AMENDMENT No. 006 IS RAISED TO ANSWER QUESTIONS FROM THE INDUSTRY.**

**QUESTIONS AND ANSWERS**

**Question # 047**

**Reference:**

Glossary

**Question #047:**

In the Glossary of Annex A, "variance" is defined as "in this context it is the same as standard deviation ( $\sigma$ ) and not the technically correct square of the standard deviation ( $\sigma^2$ )".

In Question #026 it was asked, referring to Attachment 2, item M16 (Zdr): "Is variance the same as precision? That is, does the test pass if the measured variance (the square of the standard deviation) of the PDF of the measured ZDR is less than 0.3 dB?". And this question was answered with "Yes".

If the "square of the standard deviation" is 0.3, the standard deviation (i.e. the "variance" according to the Glossary of Annex A) is approximately 0.55. This would be a more relaxed requirement. Please clarify. Please note that the same holds for items M17, M21 M36d, R11, R13 and R16.

**Answer #047:**

The answer to question #026 referred to only the main part of the question and was not complete. For clarity, "variance" is used as defined in the glossary of Annex A throughout Annex A and the attached mandatory and rated evaluations. Specifically for the cases pointed out in this question the term variance means standard deviation or precision as per the glossary definition.

M16: a precision of +/- 0.3 dB or less is the same as standard deviation of less than 0.3 dB

M17: variance of 2 dB or less means the same as standard deviation of 2dB or less

M21: a variance of 1 dB or less means the same as standard deviation of 1 dB or less

M36d: to within 0.1 and 0.1 dB of each other should read to within a standard deviation of 0.1 dB or less.

R11: variance is better than +/- 0.30 means a standard deviation of less than 0.30 dB. Note: "dB" was inadvertently left off.

R13: A variation less than 0.15 dB means a standard deviation of less than 0.15 dB

R16: That is "less than 1 dB variance " means a standard deviation less than 1 dB

### Question # 048

**Reference:**

Appendix A to Annex A - SOW

**Question #048:**

When referenced items above say "extended Nyquist velocity range of 48 m/s", does EC mean +/- 24 m/s or +/- 48 m/s? Is the intent to limit the radar frequency to S-Band, or should the maximum range be reduced to 120 km for C-Band systems?

**Answer #048:**

Please refer to Answer #003 and Modification #001 under Amd #002 and Answer #043 under Amd #005. The range required is 240 km or greater, this cannot be reduced.

### Question # 049

**Reference:**

Attachment 2 - Mandatory Evaluation Criteria

**Question #049:**

Is EC using the strict definition of "dual PRF" meaning one contiguous set of constant PRF for about half the beam at prf1 followed by another contiguous set of constant prf2 for the second half beam?

**Answer #049:**

We are not limiting Bidders to the strict definition of dual PRF as described in the question. The two PRFs may be staggered or interlaced as long as whatever method is used can also meet all other mandatory requirements.

### Question # 050

**Reference:**

RFP

**Question #050:**

We would like to kindly request an extension of 30 days to the Tender due date.

**Answer #050:**

An extension of 30 calendar days is granted. The new bid closing date is September 30, 2015.

### Question # 051

**Reference:**

Attachment 2 - Mandatory Evaluation Criteria, Amendment No.004 to RFP

**Question #051:**

Reference: Mandatory Requirement M12 & Amendment No. 004 (Question #033)

As for sensitivity, Amendment No.004 specified -45dBZ at 500m. Solid-state weather radar satisfies -5dBZ at 50km with a long pulse.

However, due to its characteristics of transmitting a long and a short pulse successively, sensitivity coverage should be treated differently from that of a single pulse (as in electron tube radars), regarding the short pulse range.  
Can we interpret M12 that “inverse square law relationship” holds for short and long range separately?

**Answer #051:**

Yes, you may interpret M12 that “inverse square law relationship” holds for short and long range separately? We are specifying sensitivity performance that must be met throughout the full 500m to 240km range regardless of the method by which it is met as long as the radar also meets the other mandatory requirements when operating in that mode.

**ALL OTHER TERMS AND CONDITIONS OF THE BID SOLICITATION REMAIN UNCHANGED**