

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Bid Receiving - PWGSC / Réception des soumissions -
TPSGC
11 Laurier St. / 11, rue Laurier
Place du Portage, Phase III
Core 0A1 / Noyau 0A1
Gatineau
Québec
K1A 0S5
Bid Fax: (819) 997-9776

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
Airframes / Aero Engines R&O Division / Division de la
réparation de la révision des cellules et des moteurs
11 Laurier St. / 11, rue Laurier
8C1, Place du Portage
Gatineau
Québec
K1A 0S5

Title - Sujet COMPOSITE REPAIR HOT BOND SYSTEM	
Solicitation No. - N° de l'invitation W8485-126212/A	Amendment No. - N° modif. 003
Client Reference No. - N° de référence du client W8485-126212	Date 2012-10-31
GETS Reference No. - N° de référence de SEAG PW-\$\$BF-136-23156	
File No. - N° de dossier 136bf.W8485-126212	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2012-11-14	
Time Zone Fuseau horaire Eastern Daylight Saving Time EDT	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Podlesny, Sebastian	Buyer Id - Id de l'acheteur 136bf
Telephone No. - N° de téléphone (819) 956-0082 ()	FAX No. - N° de FAX (819) 956-9110
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

Amendment 3 - Questions

1Q. What are documents C-12-010-062/TP-000 and C-12-010-040/TR-017? How are civilian vendors supposed to access all the SOW referenced specifications / documents in a reasonable amount of time. Given the relatively short time allotted to submit a bid?

1A. These documents are DND controlled publications:

C-12-010-062/TP-000

ADVANCED COMPOSITE MATERIALS REPAIR MANUAL

C-12-010-040/TR-017

AIRCRAFT RADOMES AND LAMINATED FABRIC REINFORCED PARTS

All referenced DND controlled publications are available from the PWGSC contact, upon request.

2Q. What is MIL-STD-461F ?

2A. MIL-STD-461F, REQUIREMENTS FOR THE CONTROL OF ELECTROMAGNETIC INTERFERENCE CHARACTERISTICS OF SUBSYSTEMS AND EQUIPMENT.

The stated interface requirements are considered necessary to provide reasonable confidence that a particular subsystem or equipment complying with these requirements will function within their designated design tolerances when operating in their intended electromagnetic environment. Any electrical / electronic equipment that is installed or used in military environments must meet certain EMI/EMC requirements, to ensure that it is neither the source nor the victim of EMI. In general, there are 4 types of EMI tests designed to assess EMI risk. Radiated emissions (RE) and conducted emissions (CE) characterise equipment as a potential source of EMI that could adversely affect other equipment. Radiated susceptibility (RS) and conducted susceptibility (CS) characterise equipment as a potential victim to EMI. These tests are generic and there are various standards, both commercial and military, that provide specific details on test equipment, frequency ranges, limits, etc. For military applications, we use MIL-STD-461F. The requirements of this standard have been developed and refined over decades, and equipment that passes MIL-STD-461F has a low risk of EMI issues when employed in a military electromagnetic environment. In this case, the Composite Repair System will be operated on the deck of ships that support helos operations. Naval ships have powerful emitters, and can produce high electromagnetic fields. It is appropriate for the Composite Repair System to meet the MIL-STD-461F requirements. Other commercial standards are less stringent and will not be adequate nor acceptable to DND for testing of this system. There is an unclassified study, freely available on the internet, titled Engineering Practice Study, March 2, 2001. "Results Of Detailed Comparisons of Individual EMC Requirements And Test Procedures Delineated In Major National And International Commercial Standards With Military Standard MIL-STD-461E" that compares MIL-STD-461E with several commercial standards, and discusses the increased risk of using Commercial Off The Shelf (COTS) equipment in military environments that only meet certain commercial EMI/EMC standards.

MIL-STD-461F is publicly available.

3Q. Why must the ENTIRE kit be contained in just one carrying unit and under 100lb? This is specific to only one manufacturer's design, which happens to be bulky, heavy, and easily damaged due to the thin wall design of the case, necessary to reduce the weight of the unit.

3A. The 100 pound maximum limit for the system was selected as this is the limit for two people to carry the unit to the repair location. It is suspected that most systems will be lower in weight. Three of the leading Composite Hot Bond Systems utilize one carrying case. DND has deemed this a mandatory requirement to ensure that all the various pieces (ie, blankets, hoses, venturi) are retained in one case. The technician then has everything available to conduct a repair. DND has never had a damaged case.

4Q. Deploy-ability is a key requirement for any type of equipment such as this. Why specify a design with an LCD display, which is highly susceptible to damage?

4A. Modern LCD's are very rugged and found in a number of DND items. A full sunlight readable LCD display permits visual observation of the cure repair in process, no matter where the repair is being conducted. DND has had very few hot bond system display problems, and most have been related to the erasable programmable read only memory (EPROM).

5Q. 3.4.1.7.: is 2 minutes a minimum?

5A. Yes, 2 minutes is a minimum.

6Q. Why specify an internal venturi vacuum source? This necessitates an external source of compressed air! Such a design requirement severely limits the deploy-ability of such a design?

6A. Actually, it is the other way around, it enhances deployability. For the general purpose system, the internal venturi is a backup should the electrical vacuum become inoperative. This provides flexibility for hangar and flightline repairs. For shipboard use, only the pneumatic vacuum is required.

7Q. 3.4.2.1.3.b: Why steel braided lines? Other vacuum hose designs are better, more compact and field-repairable.

7A. Steel braided lines are the most robust and durable for the harsh work environment DND operates in. To our knowledge, with over 15 years of using steel braided lines, there has never been a broken line.

8Q. 3.5.2.1.a: No one will ever perform a bonder operation in a blowing dust and sand environment. Even if the bonder is capable of such.

8A. In Afghanistan, the accumulation of fine dust covered everything and everyone. Blowing sand was a daily occurrence and technicians conducted repairs in very austere environment. DND does not have the luxury of repairing aircraft in sheltered hangars or shops.

9Q. 3.6.1.1.c: Any and all documents can be converted into French with on-line translator software.

9A. Government of Canada Official Languages Policy does not permit use of on-line translator software. Documents must be procured translated or utilize official government of Canada translation services. DND is accepting English only service bulletins and will then have them translated into French.

Solicitation No. - N° de l'invitation

W8485-126212/A

Amd. No. - N° de la modif.

003

Buyer ID - Id de l'acheteur

136bf

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

W8485-126212

File No. - N° du dossier

136bfW8485-126212

CCC No./N° CCC - FMS No/ N° VME

10Q. 3.6.5.1 (d): Calibration is normally conducted by the vendor as this requires precision equipment and controlled standards.

10A. DND has their own calibration services. The calibration centre calibrates many DND owned precision items and does so utilizing controlled standards in a laboratory. DND calibration centre personnel may be present for the initial training.