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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

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Title - Sujet AT optical design & analysis	
Solicitation No. - N° de l'invitation W7701-145740/A	Amendment No. - N° modif. 002
Client Reference No. - N° de référence du client W7701-14-5740	Date 2014-05-23
GETS Reference No. - N° de référence de SEAG PW-\$QCL-018-15940	
File No. - N° de dossier QCL-3-36121 (018)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2014-06-03	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: Piras, Gabriel	Buyer Id - Id de l'acheteur qcl018
Telephone No. - N° de téléphone (418) 649-2870 ()	FAX No. - N° de FAX (418) 648-2209
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

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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

W7701-145740/A

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

W7701-14-5740

Amd. No. - N° de la modif.

002

File No. - N° du dossier

QCL-3-36121

Buyer ID - Id de l'acheteur

qcl018

CCC No./N° CCC - FMS No/ N° VME

AMENDMENT 002

Included in the present amendment :

1. Question and answer 2
 2. Amendment of Annex A – Statement of Work
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1.Question 2:

For Task 1 that requires a fixed price quote, is it the design of an afocal system (objective and eyepiece) or only the eyepiece. There seem to be a confusion in Annex A, the title is clear: conception of an eyepiece, but the following text in the reports and deliverables section asks for an afocal system.

Answer : For Task 1, it is for the design of an eyepiece only. The use of the term “afocal”, too broad, is a mistake.

2.Amend Task 1 – Firm portion of the work- optical design of eyepiece for image intensifier tube as follows:

TASK 1: FIRM PORTION OF THE WORK - OPTICAL DESIGN OF EYEPIECE FOR IMAGE INTENSIFIER TUBE

4.1 Statement of Work

The Contractor must design, simulate and analyse ~~afocal-optics-or~~eyepieces for commercially available image intensifier tubes. The image intensifier tubes used in this task must have these typical characteristics:

(1) The image orientation of the image intensifier could be either right-side-up or up-side-down with the use of inverting or non-inverting fiber optic element at the exit of the image intensifier.

~~The choice of image orientation will be considered based on designs of the afocal optics.~~

(2) The surface of this fiber optic element is curved for improved image quality for the entire field-of-view.

In addition, the ~~afocal-optics~~eyepiece must

- (1) provide 1X magnification;
- (2) provide 40 degrees field-of-view to the eye;
- (3) have diopter adjustment of +4 to -6;
- (4) have an eye relief about 25mm, or between 20 and 30mm.
- (5) have image distortion of less than 2%;
- (6) have a brightness distribution of larger than 85% at the image edge;
- (7) have optical transmission in the green spectrum of over 90%;
- (8) have stray light ratio of less than 3%;

As such, this task consists of the following activities:

The Contractor must:

- Perform optical design of ~~afocal~~eyepiece optics for image intensifier tube
- Perform optical simulation of such design over the entire field-of-view for Modulation Transfer Function (MTF), Point Spread Function (PSF), image distortion, optical path difference (OPD), Ray-Fan, brightness distribution
- Perform opto-mechanical design for the lens barrel

- Perform athermalization analysis between -51 and 49 degree C
- Perform tolerance analysis on ~~afocal~~eyepiece optics and lens barrel between -51 and 49 degree C
- Perform stray light analysis
- Report all technical data and analysis

The dimension and the curvature of the output image surface of the image intensifier tube will be provided to the Contractor by DRDC at the beginning of the task.

4.2 Reports and Other Deliverables

The deliverables of Task 1 will consist of materials of the corresponding activities which are to be included in two progress reports and one final report. More specifically, Progress Report 1 (Six weeks after Contract Award)

- Methodology
- Optical design for ~~afocal-optics~~eyepiece

Simulation results (Zemax, CodeV) of MTF, PSF, OPD, Ray-Fan, image distortion, brightness distribution, athermalization

Progress Report 2 (Ten weeks after Contract Award)

- Methodology
- Opto-mechanical design of lens barrel
- Results on athermalization analysis
- Tolerance analysis, and stray light analysis by ASAP tool of the optical design

Final Report (Sixteen weeks after Contract award)

- Objective
- Methodology
- Final design (lens materials, coatings, sketches and drawings) of ~~afocal-optics~~eyepiece and lens barrel
- Athermalization analytical results
- Tolerance analytical results (surface roughness, temperatures, dimension, lens element position and alignment)
- Stray light analysis results

The simulation work must be performed by recognized, commercial optical modelling software such as Zemax, CodeV, ASAP.

The above information requested in progress reports or final report must be included each in two paper copies and one electronic copy in Adobe PDF or MSWord in either official language.

*****All other terms and conditions remain the same.**