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FAX pour soumissions: (418) 648-2209

**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

TPSGC/PWGSC

601-1550, Avenue d'Estimauville

Québec

Québec

G1J 0C7

Title - Sujet Numerical modelling & simulations	
Solicitation No. - N° de l'invitation W7701-196952/A	Amendment No. - N° modif. 001
Client Reference No. - N° de référence du client W7701-196952	Date 2020-07-30
GETS Reference No. - N° de référence de SEAG PW-\$QCN-039-17954	
File No. - N° de dossier QCN-9-42122 (039)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2020-08-25	Time Zone Fuseau horaire Heure Avancée de l'Est HAE
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: Boisclair, Daniel	Buyer Id - Id de l'acheteur qcn039
Telephone No. - N° de téléphone (418) 571-8051 ()	FAX No. - N° de FAX (418) 648-2209
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

Title : Numerical modelling and simulations

AMENDMENT 001

Answer questions from the industry.

Enquiries - Bid Solicitation - Clause # 2.4

To ensure consistency and quality of information provided to bidders, significant enquiries received and the replies to such enquiries will be provided simultaneously to bidders to which the bid solicitation has been sent, without revealing the sources of the enquiries.

Here are the questions which we have received until now:

Question #1: The Request for propositions (RFP) mentions several times the use of a CFD solver that can interface with LS-Dyna. It seems like the purpose of the CFD solver is for explosive modeling in LS-Dyna. LS-Dyna contains some simplified CFD type solvers such as Multi-material ALE, Structured-ALE, SPH, and CE-SE which are commonly used for blast modeling and fluid flow.

The question is whether using these built-in LS-Dyna solvers is acceptable for this RFP, or if it is required or expected to have a more advanced CFD solver such as ANSYS CFX or Fluent that can then interface with LS-Dyna ?

Answer #1: There are some cases where a CFD solver is needed. For example: it may be requested to model the blast shock wave and ejecta resulting from the landmine explosion. It may be requested to improve or modify the CFD code used to improve accuracy of the simulations, it may be requested to model multi-phase explosives (for example thermobaric explosive). Also, as indicated in the SOW, the CFD code must resolve the shock correctly, including attenuation, diffraction by obstacles, confinement and thermodynamic characteristics associated to airblast applicable to distances, sometimes as short as 0.3 m/kg $1/3$. If the bidder select the LS-Dyna software, the bidder have to demonstrate in criteria CO1 all the capabilities requested in the SOW. If another software is proposed than, it have to comply with the requested capabilities in the SOW but also, it must be demonstrate that it can interface with the LS-Dyna software.

****ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME****