Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:

Réception des soumissions - TPSGC / Bid Receiving - PWGSC
1550 Avenue d'Estimauville
Québec
Québec
G1J 0C7

REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION

Proposal To: Public Works and Government Services Canada

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

Proposition aux: Travaux Publics et Services Gouvernementaux Canada

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaires

Title - Sujet
Support VRAPP contrat AT

Solicitation No. - N° de l'invitation	**Date**
W7701-125165/A	2012-02-22

Client Reference No. - N° de référence du client
W7701-12-5165

GETS Reference No. - N° de référence de SEAG
PW-$QCL-002-14443

File No. - N° de dossier	**CCC No./N° CCC - FMS No./N° VME**
QCL-1-34629 (002)	

Solicitation Closes - L'invitation prend fin
at - à 02:00 PM
on - le 2012-03-09

Time Zone
Fuseau horaire
Heure Normale du l'Est
HNE

F.O.B. - F.A.B.
Plant-Usine: ☐ **Destination:** ☑ **Other-Autre:** ☐

Address Enquiries to: - Adresser toutes questions à:	**Buyer Id - Id de l'acheteur**
Gallant, Julie	qcl002

Telephone No. - N° de téléphone	**FAX No. - N° de FAX**
(418) 649-2931 ( )	(418) 648-2209

Destination - of Goods, Services, and Construction:
Destination - des biens, services et construction:
R & D POUR LA DÉFENSE CANADA - VALCARTIER
2459 BOUL. PIE XI NORD
QUEBEC
Québec
G3J1X5
Canada

Instructions: See Herein

Instructions: Voir aux présentes

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

Delivery Required - Livraison exigée	**Delivery Offered - Livraison proposée**
VOIR DOC.	

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**

Issuing Office - Bureau de distribution
TPSGC/PWGSC
1550 Avenue d'Estimauville
Québec
Québec
G1J 0C7

Canada

TITRE: SUPPORTING MODELLING AND SIMULATION FOR VRAPP

TABLE OF CONTENTS

PART 7 - RESULTING CONTRACT CLAUSES

1. Statement of Work
2. Standard Clauses and Conditions
3. Security Requirement
4. Term of Contract
5. Authorities
6. Payment
7. Invoicing Instructions
8. Certifications
9. Applicable Laws
10. Priority of Documents
11. Defence Contract
12. Foreign Nationals (Canadian Contractor)
13. Insurance
14. Controlled Goods Program
15. Site Regulations
16. Identification badge
17. Progress Reports

List of Annexes:

Annex A	Statement of Work
Annex B	Basis of Payment
Annex C	Contractor Disclosure of Foreground Information
Annex D	DND 626 form, Task Authorization
Annex E	Security Requirements Check List

List of Attachments:

Attachment 1	Financial bid presentation sheet
Attachment 2	Evaluation of Price
Attachment 3	Mandatory and Point Rated Technical Criteria
Attachment 4	Certifications Precedent to Contract Award

PART 1 - GENERAL INFORMATION

1. Introduction

The bid solicitation document is divided into sevenparts plus attachments and annexes as follows:

Part 1 General Information: provides a general description of the requirement;

Part 2 Bidder Instructions: provides the instructions, clauses and conditions applicable to the bid solicitation;

Part 3 Bid Preparation Instructions: provides bidders with instructions on how to prepare their bid;

Part 4 Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria that must be addressed in the bid, if applicable, and the basis of selection;

Part 5 Certifications: includes the certifications to be provided;

Part 6 Security, Financial and Other Requirements: includes specific requirements that must be addressed by bidders; and

Part 7 Resulting Contract Clauses: includes the clauses and conditions that will apply to any resulting contract.

The annexes include:
Annex A Statement of Work
Annex B Basis of Payment
Annex C Contractor Disclosure of Foreground Information
Annex D DND626 form, Task Authorization
Annex E Security Requirements Check List

2. Summary

Develop simulation components by following the processes determined by the technical authority, creating and conducting simulations and providing support during analysis of these simulations and providing support during data collection. These data will make it possible to construct and validate digital models of aerial platforms, weapons, countermeasures and sensors. The work to be performed will involve to create digital models, validate and verify digital models or software components, modify and/or add software components, support execution of the software components in a series of simulations, support analysis of simulations, support the collection of data from real systems, execute code review, follow on of work and support for VRAPP demonstration project and technical specification. The Work to be performed will be on an "as and when requested basis" using a Task Authorization.

The organization for which the services are to be rendered is Defence Research and Development Canada - Valcartier (DRDC - Valcartier).

The period of the Contract is from date of Contract to March 31st, 2016, inclusive.

All the work is to be carried out on site at Defence Research and Development Canada - Valcartier, located at 2459 Pie-XI Blvd North, Quebec City, Quebec.

Defence Research and Development Canada - Valcartier has determined that any intellectual property rights arising from the performance of the Work under the resulting contract will belong to Canada.

The resulting contract will be a Task Authorisation contract. The Maximum Contract Value is $800,000.00 CDN and the Minimum Contract Value" is 10% of the maximum Contract Value.

There is a security requirement associated with this requirement. For additional information, consult Part 6 - Security, Financial and Other Requirements, and Part 7 - Resulting Contract Clauses. Bidders should consult the "Security Requirements for PWGSC Bid Solicitations - Instructions for Bidders" document on the Departmental Standard Procurement Documents Web site.

This procurement is subject to the Controlled Goods Program.

The requirement is subject to the provisions of the Agreement on Internal Trade (AIT).

The requirement is limited to Canadian goods and/or services.

3. Debriefings

After contract award, bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days of receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

PART 2 - BIDDER INSTRUCTIONS

1. Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the *Standard Acquisition Clauses and Conditions* (http://sacc.pwgsc.gc.ca/sacc/index-e.jsp) Manual issued by Public Works and Government Services Canada.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The 2003 (2011-05-16) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 12.1. (a) and (b) of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

1. Canada may reject a bid where any of the following circumstances is present:

(a) the Bidder is subject to a Vendor Performance Corrective Measure, under the Vendor Performance Corrective Measure Policy, which renders the Bidder ineligible to bid on the requirement;

(b) an employee, or subcontractor included as part of the bid, is subject to a Vendor Performance Corrective Measure, under the Vendor Performance Corrective Measure Policy, which would render that employee or subcontractor ineligible to bid on the requirement, or the portion of the requirement the employee or subcontractor is to perform;

Subsection 5.4 of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: sixty (60) days
Insert: one hundred twenty (120) days

1.1 SACC Manual Clauses

A7035T (2007-05-25), List of Proposed Subcontractors

2. Submission of Bids

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

Due to the nature of the bid solicitation, **bids transmitted by facsimile or/and e-mail to PWGSC will not be accepted.**

3. Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority at julie.gallant@tpsgc-pwgsc.gc.ca no later than five (5) calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as proprietary will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the questions or may request that the Bidder do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered with copies to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

4. Applicable Laws

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Quebec.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the bidders.

5. Basis for Canada's Ownership of Intellectual Property

Defence Research and Development Canada - Valcartier has determined that any intellectual property rights arising from the performance of the Work under the resulting contract will belong to Canada.

> *The Treasury Board, granted Defence Research and Development Canada exemption from the Treasury Board Policy on "Title to Intellectual Property Arising Under Crown Procurement Contracts"*

PART 3 - BID PREPARATION INSTRUCTIONS

1. Bid Preparation Instructions

Canada requests that bidders provide their bid in separately bound sections as follows:

Section I : Technical Bid (**4 hard copies**)
Section II : Financial Bid (**2 hard copies**)
Section III : Certifications (**1 hard copy**)

Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.

Canada requests that bidders follow the format instructions described below in the preparation of their bid:

(a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
(b) use 30% recycled paper;
(c) print double sided (duplex printing);
(d) use a numbering system that corresponds to the bid solicitation; and
(e) submit bound bids using cerlox, staples, etc., but no binders.

1.1 Section I : Technical Bid

In their technical bid, bidders should demonstrate their understanding of the requirements contained in the bid solicitation and explain how they will meet these requirements. Bidders should demonstrate their capability and describe their approach in a thorough, concise and clear manner for carrying out the work.

The technical bid should clearly address and in sufficient depth the points that are subject to the evaluation criteria against which the bid will be evaluated. Simply repeating the statement contained in the bid solicitation is not sufficient. In order to facilitate the evaluation of the bid, Canada requests that bidders address and present topics in the order of the evaluation criteria under the same headings. To avoid duplication, bidders may refer to different sections of their bids by identifying the specific paragraph and page number where the subject topic has already been addressed.

1.2 Section II : Financial Bid

Bidders must submit their financial bid in accordance with the Attachment 1, *Financial Bid Presentation sheet.*

1.2.1 SACC Manual Clauses

C3011T (2010-01-11), Exchange Rate Fluctuation

1.3 Section III : Certifications

Bidders must submit the certifications required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

1. Evaluation Procedures

(a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.

(b) An evaluation team composed of representatives of Canada will evaluate the bids.

1.1 Technical Evaluation

1.1.1 Mandatory Technical Criteria

Refer to Attachment 3, *Mandatory and Point Rated Technical Criteria*.

1.1.2 Point Rated Technical Criteria

Refer to Attachment 3, *Mandatory and Point Rated Technical Criteria*.

1.2 Financial Evaluation

1.2.1 Mandatory Financial Criteria

The Bidder must submit firm rates for each category of resources listed in article 1 of Attachment 1 - *Financial bid presentation sheet*, for the contract period. GST/HST excluded, FOB Destination (for goods), all applicable customs duty and excise taxes included

1.2.2 Evaluation of Price

The price of the bid will be evaluated in Canadian dollars, the Goods and Services Tax or the Harmonized Sales Tax excluded, FOB destination, Canadian customs duties and excise taxes included.

For evaluation purposes only, the price of the bid will be determined as detailed in Attachment 2, *Evaluation of Price*.

2. Basis of Selection

2.1 Basis of Selection - Lowest Evaluated Price Per Point

1. To be declared responsive, a bid must:

(a) comply with all the requirements of the bid solicitation;

(b) meet all mandatory technical evaluation criteria;

(c) obtain the required minimum points for each criterion and each group of criteria with a pass mark; and

(d) obtain the required minimum points overall for the technical evaluation criteria which are subject to point rating.

Bids not meeting (a) or (b) or (c) or (d) will be declared non-responsive. Neither the responsive bid that receives the highest number of points nor the one that proposed the lowest price will necessarily be accepted. The responsive bid with the lowest evaluated price per point will be recommended for award of a contract. The evaluated price per point will be determined by dividing the evaluated price of the bid by the number of points obtained for the point rated technical evaluation criteria.

In the event that two or more responsive bids have the same lowest evaluated price per point, the responsive bid which obtained the highest number of points overall for the point rated technical evaluation criteria will be recommended for award of a contract.

PART 5 - CERTIFICATIONS

Bidders must provide the required certifications to be awarded a contract. Canada will declare a bid non-responsive if the required certifications are not completed and submitted as requested.

Compliance with the certifications bidders provide to Canada is subject to verification by Canada during the bid evaluation period (before award of a contract) and after award of a contract. The Contracting Authority will have the right to ask for additional information to verify the bidders' compliance with the certifications before award of a contract. The bid will be declared non-responsive if any certification made by the Bidder is untrue, whether made knowingly or unknowingly. Failure to comply with the certifications or to comply with the request of the Contracting Authority for additional information will also render the bid non-responsive.

1. Certifications Precedent to Contract Award

The certifications in Attachment 4, Certifications Precedent to Contract Award, should be completed and submitted with the bid but may be submitted afterwards. If any of these required certifications is not completed and submitted as requested, the Contracting Authority will so inform the Bidder and provide the Bidder with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within that time period will render the bid non-responsive.

PART 6 - SECURITY, FINANCIAL AND OTHER REQUIREMENTS

1. Security Requirement

1. Before award of a contract, the following conditions must be met:

   (a) the Bidder must hold a valid organization security clearance as indicated in Part 7 - Resulting Contract Clauses;

   (b) the Bidder's proposed individuals requiring access to classified or protected information, assets or sensitive work site(s) must meet the security requirement as indicated in Part 7 - Resulting Contract Clauses;

   (c) the Bidder must provide the name of all individuals who will require access to classified or protected information, assets or sensitive work sites.

2. Bidders are reminded to obtain the required security clearance promptly. Any delay in the award of a contract to allow the successful bidder to obtain the required clearance will be at the entire discretion of the Contracting Authority.

2. For additional information on security requirements, bidders should consult the “Security Requirements for PWGSC Bid Solicitations - Instructions for Bidders” (http://www.tpsgc-pwgsc.gc.ca/app-acq/lc-pl/lc-pl-eng.html#a31) document on the Departmental Standard Procurement Documents Web site.

2. Financial Capability

SACC Manual clause A9033T (2011-05-16), Financial Capability

3. Controlled Goods Requirement

SACC Manual clause A9130T (2008-12-12), Controlled Goods Program

PART 7 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

1. Statement of Work

The Contractor must perform the Work in accordance with the Statement of Work at Annex A and the Contractor's technical bid entitled _____, dated _____.

1.1 Task Authorization

The Work to be performed under the Contract will be on an "as and when requested basis" using a Task Authorization (TA). The Work described in the TA must be in accordance with the scope of the Contract.

1.1.1 Task Authorization Process :

1.The DND Procurement Authority will provide the Contractor with a description of the task using the DND626 form - Task Authorization specified in Annex D.

2.The Task Authorization (TA) will contain the details of the activities to be performed, a description of the deliverables, and a schedule indicating completion dates for the major activities or submission dates for the deliverables. The TA will also include the applicable basis(bases) and methods of payment as specified in the Contract.

3.The Contractor must provide the DND Procurement Authority, within 10 calendar days of its receipt, the proposed total estimated cost for performing the task and a breakdown of that cost, established in accordance with the Basis of Payment specified in the Contract.

4.The Contractor must not commence work until a TA, authorized by the DND Procurement Authority has been received by the Contractor. The Contractor acknowledges that any work performed before a TA has been received will be done at the Contractor's own risk.

1.1.2 Task Authorization Limit

The DND Procurement Authority may authorize individual task authorizations up to a limit of **$80,000.00**, Goods and Services Tax or Harmonized Sales Tax included, inclusive of any revisions.

Any task authorization to be issued in excess of that limit must be authorized by the Contracting Authority before issuance.

1.1.3 Department of National Defence

The administration of the Task Authorization process will be carried out by Defence Research and Development Canada - Valcartier (DRDC - Valcartier). This process includes monitoring, controlling and reporting on expenditures of the contract with task authorizations to the Contracting Authority.

1.2 Disclosure Certification

On completion of the Work, the Contractor must submit to the Technical Authority and to the DND Procurement Authority a copy of the Disclosure Certification attached as Annex C stating that all applicable disclosures were submitted or that there were no disclosures to submit under Section 28 of the general conditions 2040.

2. Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the *Standard Acquisition Clauses and Conditions* (http://ccua-sacc.tpsgc-pwgsc.gc.ca/pub/acho-eng.jsp) *Manual* issued by Public Works and Government Services Canada.

2.1 General Conditions

2040 (2011-05-16), General Conditions - Research & Development, apply to and form part of the Contract.

2.2 Supplemental General Conditions

The following supplemental general conditions apply to and form part of the Contract:

4002 (2010-08-16), Software Development or Modification Services

2.3 SACC Manual Clauses

K3410C (2008-12-12), Canada to Own Intellectual Property Rights in Foreground Information
K3305C (2008-05-12), License to Intellectual Property Rights in Foreground Information.

3. Security Requirement

1. The Contractor/Offeror must, at all times during the performance of the Contract/Standing Offer, hold a valid Facility Security Clearance at the level of NATO SECRET, issued by the Canadian Industrial Security Directorate (CISD), Public Works and Government Ser-vices Canada (PWGSC).

2. The Contractor/Offeror personnel requiring access to PROTECTED/CLASSIFIED infor-mation, assets or sensitive work site(s) must be citizens or permanent residents of Canada or citizens of the United States, England, or Australia, and must EACH hold a valid personnel security screening at the level of RELIABILITY STATUS or SECRET, as required, granted or approved by CISD/PWGSC. Until the security screening of the Contractor personnel required by this Contract has been completed satisfactorily by the CISD, PWGSC, the Contractor personnel MAY NOT HAVE ACCESS to PROTECTED/CLASSIFIED information or assets, and MAY NOT ENTER sites where such information or assets are kept, without an escort.

3. The Contractor/Offeror personnel requiring access to NATO UNCLASSIFIED informa-tion or assets do not require to hold a personnel security clearance; however, the Contractor must ensure that the NATO Unclassified information is not releasable to third parties and that the "need to know" principle is applied to personnel accessing this information.

4. The Contractor personnel requiring access to NATO RESTRICTED information or assets must be citizens of a NATO member country or a permanent resident of Canada and EACH hold a valid RELIABILITY STATUS or its equivalent, granted or approved by the appropriate delegated Nato Security Authority. Until the security screening of the Contractor personnel required by this Contract has been completed satisfactorily by the CISD, PWGSC, the Contractor personnel MAY NOT HAVE ACCESS to PROTECTED information or assets, and MAY NOT ENTER sites where such information or assets are kept, without an escort.

5. The Contractor/Offeror personnel requiring access to NATO CLASSIFIED information, assets or sensitive work site(s) must be permanent residents of Canada or citizens of a NATO member country and EACH hold a valid personnel security screening at the level of NATO SECRET, granted or approved by the appropriate delegated NATO Security Authority. Until the security screening of the Contractor personnel required by this Con-tract has been completed satisfactorily by the CISD, PWGSC, the Contractor personnel MAY NOT HAVE ACCESS to CLASSIFIED information or assets, and MAY NOT ENTER sites where such information or assets are kept, without an escort.

6. The Contractor personnel requiring access to FOREIGN CLASSIFIED information, assets or sensitive work site(s) must be citizens or permanent residents of Canada or citizens of the United States, England, or Australia, and must EACH hold a valid personnel security screening at the level of SECRET as required, granted or approved by CISD/PWGSC. Until the security screening of the Contractor personnel required by this Contract has been completed satisfactorily by the CISD, PWGSC, the Contractor personnel MAY NOT HAVE ACCESS to PROTECTED/CLASSIFIED information or assets, and MAY NOT ENTER sites where such information or assets are kept, without an escort.

7. The Contractor/Offeror MUST NOT remove any PROTECTED/CLASSIFIED information from the identified work site(s), and the Contractor/Offeror must ensure that its personnel are made aware of and comply with this restriction.

8. Subcontracts which contain security requirements are NOT to be awarded without the prior written permission of CISD/PWGSC.

9. The Contractor/Offeror must comply with the provisions of the:

(a) Security Requirements Check List and security guide (if applicable), attached at **Annex E**;
(b) Industrial Security Manual (Latest Edition).

NOTE**: As Australia is not a NATO country, no NATO information will be released to Australians unless special permission is obtained from CISD.**

There are multiple levels of personnel security screenings associated with this file. In this instance, a Security Classification Guide must be added to the SRCL clarifying these screenings. The Security Classification Guide is normally generated by the organization's project authority and/or security authority.

4. Term of Contract

4.1 Period of Contract

The period of the Contract is from date of Contract to 31 March 2016 inclusive.

5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Julie Gallant
Public Works and Government Services Canada
Acquisitions Branch
1550 D'Estimauville ave, Quebec, Canada, G1J 0C7
Telephone: 418-649-2931
Facsimile: 418-648-2209
E-mail address: julie.gallant@tpsgc-pwgsc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

5.2 Technical Authority

The Technical Authority for the Contract is: ***(to be completed at Contract award)***

Name : _____
Title : _____
Organization : _____
Address : _____

Telephone: ___ ___ _____
Facsimile: ___ ___ _____
E-mail address: _____

The Technical Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Technical Authority; however, the Technical Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

5.3 Contractor's Representative

Administrative representative :

Name : _____

Telephone : _____

Facsimile : _____

Email : _____

Technical representative :

Name : _____

Telephone : _____

Facsimile : _____

Email : _____

5.4 DND Procurement Authority

The DND Procurement Authority for the Contract is: ***(to be completed at Contract award)***

Name : _____
Title : _____
Organization : _____
Address : _____

Telephone: ___ ___ _____
Facsimile: ___ ___ _____
E-mail address: _____

The DND Procurement Authority is the representative of the department or agency for whom the Work is being carried out under the Contract. The DND Procurement Authority is responsible for the implementation of tools and processes required for the administration of the Contract. The Contractor may discuss administrative matters identified in the Contract with the DND Procurement Authority however the Procurement Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of Work can only be made through a contract amendment issued by the Contracting Authority.

6. Payment

6.1 Basis of Payment

One of the following types of basis of payment will form part of the approved Task Authorization (TA). The task price must be determined in accordance with the Basis of Payment at Annex B.

(a) Firm Price TA

In consideration of the Contractor satisfactorily completing all of its obligations under the approved TA, the Contractor will be paid the firm price stipulated in the TA. Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work unless they have been approved, in writing, by the DND Procurement Authority before their incorporation into the Work.

(b) Ceiling Price TA

The Contractor will be reimbursed its costs reasonably and properly incurred in the performance of the Work, as determined in accordance with the Basis of Payment in Annex B, to the ceiling price specified in the approved TA. Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

The ceiling price is subject to downward adjustment so as not to exceed the actual costs reasonably incurred in the performance of the Work and computed in accordance with the Basis of Payment.

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work unless they have been approved, in writing, by the DND Procurement Authority before their incorporation into the Work.

(c) TA subject to a Limitation of Expenditure

The Contractor will be reimbursed for the costs reasonably and properly incurred in the performance of the Work, as determined in accordance with the Basis of Payment in Annex B, to the limitation of expenditure specified in the approved TA. Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

Canada's liability to the Contractor must not exceed the limitation of expenditure specified in the approved TA. No increase in the liability of Canada or in the price of the Work resulting from any design changes, modifications or interpretations of the Work, will be authorized or paid to the Contractor unless these design changes, modifications or interpretations have been approved, in writing, by the DND Procurement Authority before their incorporation into the Work. The Contractor must not perform any work or provide any service that would result in Canada's liability being exceeded before obtaining the written approval of the DND Procurement Authority. The Contractor must notify the DND Procurement Authority in writing as to the adequacy of this sum:

(i) when it is 75 percent committed, or
(ii) four (4) months before the final delivery date specified in the TA, or
(iii) as soon as the Contractor considers that the funds provided are inadequate for the completion of the Work,

whichever comes first.

If the notification is for inadequate funds, the Contractor must provide to the DND Procurement Authority a written estimate for the additional funds required. Provision of such information by the Contractor does not increase Canada's liability.

6.2 Minimum Work Guarantee - All the Work - Task Authorizations

1. In this clause,

"Maximum Contract Value" means the amount specified in the "Limitation of Expenditure - Cumulative Total of all Task Authorizations" clause set out in the Contract; and

"Minimum Contract Value" means 10% of the Maximum Contract Value.

2. Canada's obligation under the Contract is to request Work in the amount of the Minimum Contract Value or, at Canada's option, to pay the Contractor at the end of the Contract in accordance with

paragraph 3. In consideration of such obligation, the Contractor agrees to stand in readiness throughout the Contract period to perform the Work described in the Contract. Canada's maximum liability for work performed under the Contract must not exceed the Maximum Contract Value, unless an increase is authorized in writing by the Contracting Authority.

3. In the event that Canada does not request work in the amount of the Minimum Contract Value during the period of the Contract, Canada must pay the Contractor the difference between the Minimum Contract Value and the total cost of the Work requested.

4. Canada will have no obligation to the Contractor under this clause if Canada terminates the Contract in whole or in part for default.

6.3 Limitation of Expenditure - Cumulative Total of all Task Authorizations

1. Canada's total liability to the Contractor under the Contract for all approved Task Authorizations (TAs), inclusive of any revisions, must not exceed the sum of **$800,000.00**. Customs duties are included and the Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

2. No increase in the total liability of Canada will be authorized or paid to the Contractor unless an increase has been approved, in writing, by the Contracting Authority.

3. The Contractor must notify the Contracting Authority in writing as to the adequacy of this sum:

(a) when it is 75 percent committed, or

(b) four (4) months before the contract expiry date,

(c) as soon as the Contractor considers that the sum is inadequate for the completion of the Work required in all approved TAs, inclusive of any revisions,

whichever comes first.

4. If the notification is for inadequate contract funds, the Contractor must provide to the Contracting Authority, a written estimate for the additional funds required. Provision of such information by the Contractor does not increase Canada's liability.

6.4 Method of Payment

Payments will be made not more frequently than once a month.

Depending on the method of payment specified in the applicable TA, one of the following method of payment clauses will apply.

6.4.1 Single Payment

Canada will pay the Contractor upon completion and delivery of the Work in accordance with the payment provisions of the Task Authorization and the Contract if:

(a) an accurate and complete invoice and any other documents required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;

(b) all such documents have been verified by Canada;

(c) the Work delivered has been accepted by Canada.

6.4.2 Milestone Payments (For a Firm Price TA)

Canada will make milestone payments in accordance with the Schedule of Milestones detailed in the Task Authorization and the payment provisions of the Contract if:

(a) an accurate and complete invoice, and any other documents required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;

(b) all work associated with the milestone and as applicable any deliverable required has been completed and accepted by Canada.

6.4.3 Progress Payments (For a TA subject to a Limitation of Expenditure or a Ceiling Price)

(a) Canada will make progress payments in accordance with the payment provisions of the Task Authorization and the Contract for cost incurred in the performance of the Work up to 90 percent of the amount claimed and approved by Canada if:

(i) an accurate and complete invoice and any other document required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;

(ii) the amount claimed is in accordance with the Basis of payment and the Task Authorization;

(iii) the total amount for all progress payments paid by Canada does not exceed 90 percent of the total amount to be paid under the Task Authorization.

(b) The balance of the amount payable will be paid in accordance with the payment provisions of the Task Authorization and the Contract upon completion and delivery of all work required under the Task Authorization if the Work has been accepted by Canada and a final claim for the payment is submitted.

(c) Progress payments are interim payments only. Canada may conduct a government audit and interim time and cost verifications and reserves the right to make adjustments to the Contract from time to time during the performance of the Work. Any overpayment resulting from progress payments or otherwise must be refunded promptly to Canada.

6.5 SACC Manual Clauses

A9117C (2007-11-30), T1204 - Direct Request by Customer Department
C0305C (2008-05-12), Cost Submission

6.6 Discretionary Audit

C0705C (2010-01-11), Discretionary Audit

7. Invoicing Instructions - Progress Claim

1. The Contractor must submit a claim for progress payment using form PWGSC-TPSGC 1111. Form PWGSC-TPSGC 1111 is available at the following Website
www.tpsgc-pwgsc.gc.ca/app-acq/forms/formulaires-forms-eng.html

Each claim must show:

(a) all information required on form PWGSC-TPSGC 1111;
(b) all applicable information detailed under the section entitled “Invoice Submission” of the general conditions;
(c) the Task Authorization (TA) number;
(d) the description of the milestone invoiced, as applicable.

2. For TAs subject to a Limitation of Expenditure or a Ceiling Price, each invoice must be supported by:

(a) a list of all expenses, in accordance with the TA;
(b) a copy of time sheets to support the time claimed;
(c) a copy of the invoices, receipts, vouchers for all direct expenses, travel and living expenses;
(d) a copy of the monthly progress report.

3. Goods and Services Tax (GST) or Harmonized Sales Tax (HST), as applicable, must be calculated on the total amount of the claim before the holdback is applied. At the time the holdback is claimed, there will be no GST/HST payable as it was claimed and payable under the previous claims for progress payments.

4.The Contractor must prepare and certify one original and two (2) copies of the claim on form PWGSC-TPSGC 1111, and forward it to the following address for certification.

Att: Suzanne Larrivée
Public Works and Government Services Canada
Acquisitions Branch
1550 D’Estimauville ave
Quebec, Canada
G1J 0C7

The Contracting Authority will then forward the original and two (2) copies of the claim to the Technical Authority for appropriate certification after inspection and acceptance of the Work takes place, and onward submission to the Payment Office for the remaining certification and payment.

5. The Contractor must not submit claims until all work identified in the claim is completed.

8. Certifications

Compliance with the certifications provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the entire contract period. If the Contractor does not comply with any certification or it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

8.1 SACC Manual Clauses

A3060C (2008-05-12), Canadian Content Certification

9. Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in _____ ***(to be inserted at contract award)***.

10. Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

(a) the Articles of Agreement;
(b) the supplemental general conditions 4002 (2010-08-16), Software Development or Modification Services;
(c) the general conditions 2040 (2011-05-16), General Conditions - Research & Development;;
(d) Annex A, Statement of Work;
(e) Annex B, Basis of Payment;
(f) Annex C, Contractor Disclosure of Foreground Information;
(g) Annex D, DND626 form, Task Authorization;
(h) Annex E, Security Requirements Check List
(i) the signed Task Authorizations (including all of its annexes, if any);
(j) the Contractor's bid dated _____

11. Defence Contract

SACC Manual clause A9006C (2008-05-12), Defence Contract

12. Foreign Nationals

SACC Manual clause A2000C (2006-06-16), Foreign Nationals (Canadian Contractor)

13. Insurance

SACC Manual clause G1005C (2008-05-12), Insurance

14. Controlled Goods Program

SACC Manual clause A9131C (2008-12-12), Controlled Goods Program
SACC Manual clause B4060C (2008-05-12), Controlled Goods

15. Site Regulations

The Contractor must comply with all standing orders or other regulations, instructions and directives in force on the site where the Work is performed.

16. Identification Badge

SACC Manual clause A9065C (2006-06-16), Identification Badge

17. Progress Reports

1. The Contractor must submit ***monthly*** reports, in electronic format, on the progress of the Work, to both the Technical Authority and the Contracting Authority.

2. The progress report must contain two parts:

   (a) PART 1 : The Contractor must answer the following three questions:

      (i) Is the project on schedule?

      (ii) Is the project within budget?

      (iii) Is the project free of any areas of concern in which the assistance or guidance of Canada may be required?

      Each negative response must be supported with an explanation.

   (b) PART 2 : A narrative report, brief, yet sufficiently detailed to enable the Technical Authority to evaluate the progress of the Work, containing as a minimum:

      (i) A description of the progress of each task and of the Work as a whole during the period of the report. Sufficient sketches, diagrams, photographs, etc., must be included, if necessary, to describe the progress accomplished.

      (ii) An explanation of any variation from the work plan.

      (iii) A description of trips or conferences connected with the Contract during the period of the report.

      (iv) A description of any major equipment purchased or constructed during the period of the report.

ANNEX A

STATEMENT OF WORK

Project title :

Supporting Modelling and Simulation for VRAPP

Objectives :

The objectives of the work are :

- Plan, implement, test, validate, verify, integrate and document models of platforms, decoy cartridges, weapons and sensors to study the protection and behaviours of certain platforms as well as the mission results using modelling and simulation;
- Design, develop, test, validate, verify and document the components of a synthetic environment;
- Design and execute military scenarios;
- Provide support in analyzing simulations;
- Support the collection of data from real systems; and
- Follow the technical specifications for the VRAPP demonstration project and assist demonstration.

Background information:

Weapon systems based on electro-optics (EO) represent dangerous threats which are proliferating rapidly, and they must be dealt with by land-based, aerial and marine platforms. These threats will undoubtedly continue to be a significant concern in the years to come as more and more such systems are put in service, both of known design and new generations. The growing complexity, variability and diversity of EO threats present significant challenges which designers of countermeasures are confronting.

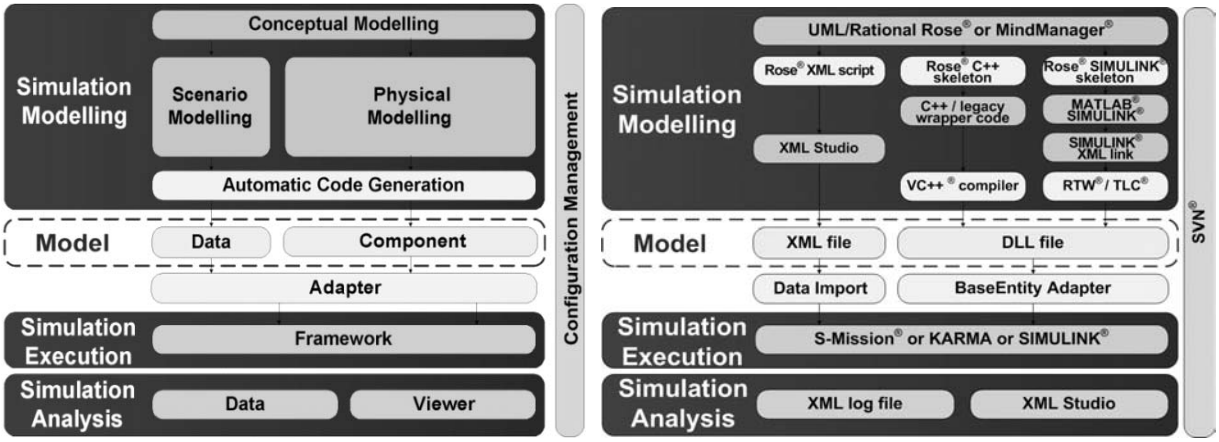
Providing a platform with a self-protection system does not always assure adequate protection against emerging threats, or even conventional threats. To be effective, a self-protection system must be activated by a warning system, and it must then activate an appropriate sequence of countermeasures. Further, effective employment of a self-protection system depends on the platform to be protected, the conditions of engagement and the threat.

As a consequence, the development of countermeasure techniques and their employment against EO threats demands robust capabilities, which must include experimental tools to perform effective analyses, engineering processes to ensure uniform results, and a process of Verification and Validation (V&V) that will achieve the level of detail required.

In response to this requirement DRDC Valcartier has initiated a VRAPP technology demonstration project (TDP) designed to, in particular, provide a virtual demonstration capability for the analysis and development of self-protection systems to deal with known and projected EO threats. This approach includes integration of existing simulation systems, be they virtual, real or hybrid, centred around a synthetic environment.

In order to respond effectively to existing requirements, models must be created, tested, verified, validated and improved on an iterative basis if the desired level of reliability is to be achieved. Since these models must accurately represent complex systems or phenomena, experimental work is done in advance or in parallel in order to better characterize the physics of the situation that is to be reproduced. This characterization work, which is an essential validation of the models, has been entrusted to resources external to this contract. However, the contractor may be required to provide support for this work during data collection. The contractor will be informed of the results throughout the process of developing the models.
The technical authority will decide as to the optimal level of reliability based on available information and data. The contractor will be able to benefit from DRDC Valcartier expertise in terms of fine tuning and validating the simulation components.

To support this type of simulation work, DRDC Valcartier has built a modelling and simulation (M&S) process and architecture over the past 10 years, called KARMA. It is therefore possible that the KARMA simulation architecture may be used to do the work. The simulation environment to be used will be stated in each task authorization. As for the KARMA process, it should be used for all development work. The process and architecture use leading-edge software engineering technologies and a combination of commercial-off-the-shelf and proprietary tools. The required tools are listed below. DRDC Valcartier has also developed a Verification and Validation (V&V) process. It is interrelated with the KARMA process because it applies throughout the development cycle. In short, throughout the contract, the contractor shall follow the different steps of the KARMA development process and the Verification and Validation process. Experience has shown that this type of approach greatly improves the quality of the final product and as it facilitates future developments. The concepts of the iterative, integrated development process are illustrated in Figure 1a. Figure 1b shows the software implementation for this process. It is essential that the contractor acquire extensive knowledge of this process to be able to use it effectively.



a) b)

Figure 1 - Implantation a) of the M&S process; b) of the suite of tools.

i. The typical way of using the KARMA process, shown in Figure 1, is summarized in paragraphs ii to x.

ii. The standard phases in the KARMA process are simulation modelling, execution and analysis. Essentially, this process is based on the concepts, tools and current best practices of software engineering as applied in the field of M&S. It is an iterative process which can be resumed at any time in the course of the simulation and completed within a few minutes. The automated integration of tools standardizes the process, promotes improvement by iteration and speeds up development.

iii. The simulation modelling phase consists of three main activities: 1) conceptual modelling of the elements to simulate; 2) scenario modelling to describe the interaction between the various elements; and 3) modelling of the physical behaviour of each element.

iv. Conceptual modelling is the first stage in all structured M&S processes. It involves building the abstract model of the entities, properties, behaviours and interactions to be simulated. In the KARMA process, conceptual modelling is the reference during design. This means that modellers must always come back to it to make modifications. In the M&S process, modularity and re-usability are expressed through a component-based approach. Unified Modelling Language (UML), representing the standard in object-oriented methods, was chosen; and the commercial software Rational Rose© was selected as the modelling tool for implementing the UML. The conceptual model can be constantly evolving in the development phase, given the incremental aspect of the process. This favours re-use by encouraging modellers to extract the common aspects of their models. It also stimulates interoperability by forcing the application of standard concepts and interfaces.

v. Simulation execution first requires scenario modelling. In the object approach, conceptual modelling and physical modelling are focused on generic objects, whereas scenario modelling refers to instances of these objects. Generally it includes the specification of model parameters, initial conditions of status variables, and dynamic assembly of sub-models comprising higher-level models, etc. Scenario modelling generates the data that characterize the simulation. In programming these elements, it is possible to re-use the initial parameters and conditions, to select the output to record, and to dynamically compose the parts of a model or entities in a scenario when the code is executed. XML (eXtensible Markup Language) is the format selected for scenario modelling and the default XML files will be produced automatically from the UML conceptual model. Setting up the XML scenario data files is done with a software program called KARMA Designer.

vi. Physical modelling is the mathematical representation of behaviour in a real situation. Various physical models could be necessary for different applications, hence the mention of multi-modelling as well. Once the clients have agreed on the requirements and concepts (entities, properties and interactions), each specialist can complete the physical modelling for which he or she is responsible. In the final stage of physical modelling, the model is implemented in a software format. The software model can be created directly in C++ or encapsulated in a class if it is an external model. The modellers are assisted by Rational Rose© to generate the code automatically and obtain the skeleton code. Visual programming and simulation tools (MATLAB/SIMULINK©) can also be used to create a physical model.

vii. The result of the modelling phase is a software model that includes a component (DLL) and its associated data (XML). The component is the generic software implementation of a model, while the data contain the characteristics of each instance belonging to a specific scenario. To maximize the modularity and re-usability of the model, the components must encapsulate several small modules of generic code. In addition, to optimize the modellers' work, the components should contain code that is independent from any simulation tools. In practice, the

components are generally compiled in a library that can be dynamically instantiated and linked during execution.

viii. To maximize re-usability, the generic models and the data files are adapted to specific simulation environments. A different adapter, which acts as an interface, must be built to suit each particular simulation tool. Associating the model and the environment does not require recompilation, and depending on the architecture, it can be selected during execution. The scenario data file adapters can also act as data importers/exporters. The benefit of the adapters is that they reduce dependence on a commercial environment or software product.

ix. In the KARMA M&S process, simulation can be executed within a customized basic simulation environment or handed over to an existing commercial environment, as long as it has functions such as scenario creation, execution control, doctrine definition, trajectories and visualization.

x. Finally, to ensure integrity of the information, the KARMA M&S development process must be supported by version control and property and exchange tracking functions. These tasks are carried out by a Subversion© database. This practice is applied throughout the M&S process, including the UML conceptual models, C++ code or SIMULINK©; the DLL components of the model; the XML data files and the documentation.

The V&V process is based on the MSCO process. Figure 2 gives an overview of the V&V process that shall be followed.

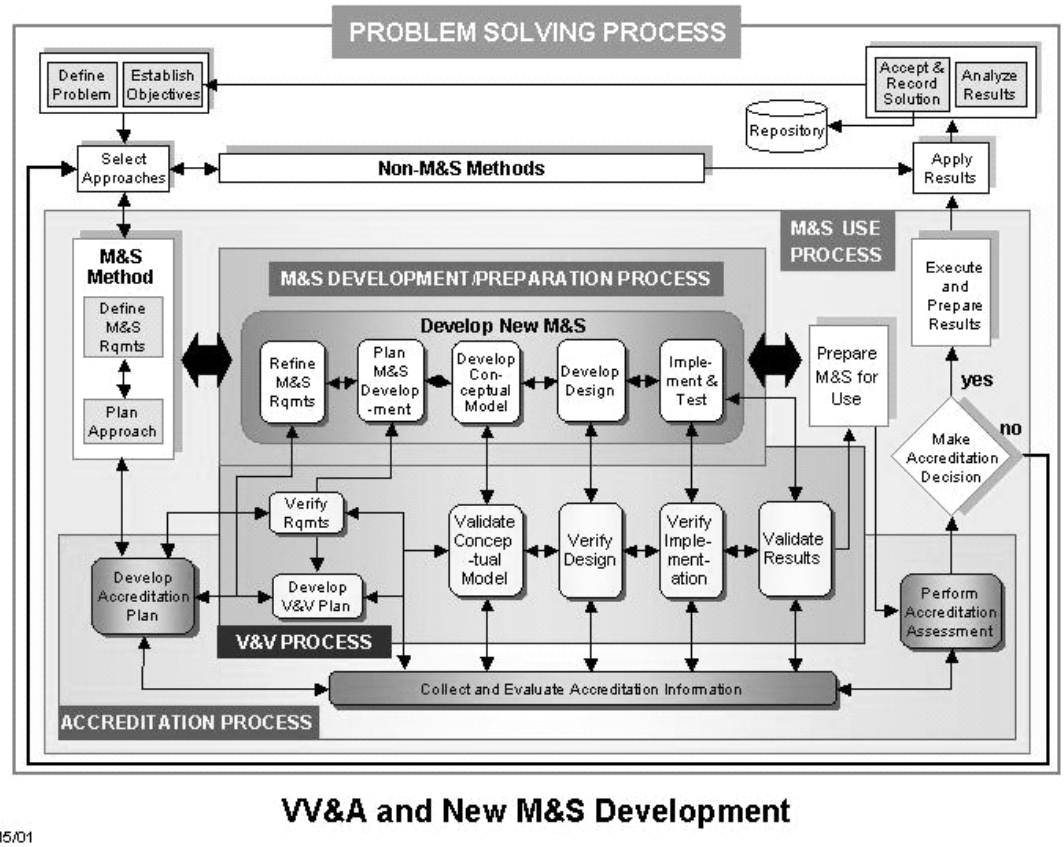


Figure 2 - MSCO Verification and Validation Process.

Below is a summary description of each of the steps in the established V&V process:

i. Define requirements. The requirements are defined in the first step. The system must be precisely characterized so that developers can create a component that meets the client's requirements.

ii. Verify requirements. Developers must then ensure that they clearly understand the stated requirements. In this way, developers are sure to develop a system that effectively meets the client's requirements.

iii. Develop V&V plan. The next step consists in developing a verification and validation plan. This plan plays a crucial role in the V&V process because the V&V strategies to apply in each of the different upcoming phases are determined within it. The plan also contains the tests to conduct, the data available, the expected results and the criteria to determine whether or not a requirement has been met.

iv. Validate conceptual model. Once the conceptual model is complete, it must be validated by different people to ensure that all the client's requirements have been taken into consideration. A frequently used method for this stage is the peer review.

v. Verify design. At the end of the design phase, the system is verified to ensure that developers have followed best software engineering practices and to ensure once more that all the client's requirements have been met.

vi. Verify implementation. The next step is to verify implementation. In this step, the developer's implementation is verified. This step consists in verifying that implementation complies with programming rules and is optimized and properly documented. A series of unit and integration tests must also be conducted by someone other than the developer. This stage also makes it possible to collect internal data and to verify that these data correspond to existing data representing the real system.

vii. Validate results. The next step consists in validating the results. The data output from the system must be validated with data from the real system. Also, a validation that the system meets all the client's requirements, which have been pre-defined, must be done. At the end of this step, a report describing the results of the different phases of the V&V process must be created.

viii. Make accreditation decision. The last step consists in deciding whether or not to accredit the system. A system is accredited if the V&V process has been applied and if it meets all the client's requirements and complies with their acceptance criteria.

Note that the creation or improvement of software components used could result in modifications or adaptations to the simulation architecture. Depending on the components to be created and the results of the V&V process, components shall be modified or added to the architecture. Consequently, the contractor will be responsible for determining the modifications to be made to the architecture. Should this situation arise, improvements to the architecture may not be undertaken until they have gone through an analysis phase and have been approved by the technical authority. Any new development cycle must start with a requirements analysis, undergo an architecture review, and end with the appropriate tests.

Detailed statement of work & work plan :

Develop simulation components by following the processes determined by the technical authority, creating and conducting simulations and providing support during analysis of these simulations and providing support during data collection. These data will make it possible to construct and validate digital

models of aerial platforms, weapons, countermeasures and sensors. The work will be divided into a number of tasks described below.

Task 1 - Create digital models

Design, develop, test, document in iterative cycles and according to the KARMA process digital models until the desired degree of reliability is reached. Throughout the development process, the technical authority must approve the contractor's work before the contractor can continue the development cycle. The development cycle includes the requirements definition, creation of the conceptual model, design, development, testing phase, integration and documentation. After each phase, the work shall therefore be reviewed by the technical authority, whose approval shall be required before the contractor can continue with the next development phase. The main digital models that may require development by the contractor include, but are not limited to:

i. Threats - weapon systems (to be defined by the technical authority) with suitable signature, tracking and guidance elements, and the necessary dynamics (including autopilot, control, propulsion and aerodynamics);

ii. Targets - military platforms (to be determined by the technical authority) with the appropriate dynamics, doctrine, signature and equipment;

iii. Countermeasures - (to be determined by the technical authority) along with the dynamics and signature;

iv. Environment - including generation of the background scene, atmospheric transmittance and interaction between the sensor and target.

The detailed specifications for the components shall be defined when the tasks are authorized. The optimal reliability to be achieved shall also be determined by the technical authority at the same time as task authorization, before the start of the development cycle. The contractor shall prepare the technical documentation for each part of the development cycle and also at the very end.

Task 2 - Validate and verify digital models or software components

Digital models or software components shall be verified and validated by the contractor according to the existing V&V process. Among other things, this involves creating a Verification and Validation plan before the development of each software component. During development, a V&V report shall be prepared by the contractor. Besides analysis of the results obtained in the verification and validation, the report shall include but shall not be limited to the limitations of the model and how the model should be used by future users. The contractor shall interact with the different stakeholders of the process and conform to the different stages of the process. The contractor shall be capable of providing a resource, other than the person who developed the model, to be responsible for testing and validating the model. The conclusions of the verification and validation will allow the technical authority to determine whether the model or software component has reached the desired level of reliability or if new iterations will be necessary in order to improve reliability.

Task 3 - Modify and/or add software components

As required, the M&S architecture and tools used shall be updated to take into account the requirements identified by the technical authority and the requirements identified during development or execution of models covered by this contract. Accordingly, the contractor shall establish the modifications required to create, execute and analyze the simulation components effectively. The main tasks to complete will be:

3.1 Requirements analysis - Verify that existing use cases meet requirements, design new use cases in UML, design interfaces and carry out static testing;

3.2 Design review - Verify that the static (class) and dynamic (sequence and state) diagrams meet the requirements set out in the use cases, design static and dynamic diagrams in UML to meet the requirements for extended components and carry out static testing;

3.3 Implementation review - Verify that the code generated is suitable for the static and dynamic diagrams, design components and generate the code for implementation of the architectural improvements and carry out dynamic testing (unit, integration and system).

Once again, the contractor shall follow the KARMA development process when developing the architecture software components. As when creating models, the contractor shall prepare the technical documentation throughout the development cycle.

Task 4 - Support execution of the software components in a series of simulations

Create scenarios by including software components, developed in Tasks 1 to 3, and execute them to assess the effectiveness of Canadian platforms and their equipment in realistic scenarios. The technical authority will submit the details of the scenarios to be implemented to the contractor at the same time as the task authorization, based on information from the military client. The scenarios could be presented as a series of engagements or missions involving different combinations of threats, aircraft and CM for various aspects (front, transverse or rear), altitudes, flight speeds and ranges. Based on the results of the simulation runs, additional developments (iterative cycles) may be required to refine the software components and thereby improve the accuracy of the results.

Task 5 - Support analysis of simulations

Analyze the data collected in the simulations. If so, the technical authority will tell the contractor which type of analysis to do and will provide the contractor with a clear, precise task list. The analysis may include but may not be limited to the effectiveness of doctrines, missions or platforms and their equipment. The contractor shall draft reports describing the results of its analyses.

Task 6 - Support the collection of data from real systems

The contractor may be asked to participate in field or laboratory tests to collect data used to build or validate a specific model. If so, a clear mandate will be transmitted to the contractor when implementing the AT.

Task 7 - Code review, follow on of work and supprort for VRAPP demonstration project and technical specifications

Code review and support the preparation and update of technical specifications. Follow the progress of integration work by participating in technical reviews, evaluating the progress of work against the task schedule and spending schedule, identifying problems and proposing suitable solutions, and identifying risk situations and proposing mitigation measures. Support the planning and implementation of demonstrations by assisting in the definition of goals, scenarios and performance criteria.

Task 8 - Support demonstrations

Support simulation demonstrations at presentations and conferences for clients. These demonstrations may be presented at locations other than DRDC Valcartier.

Other considerations

The contractor shall ensure that the work done (such software components as simulation composer, scène visualizer, aircraft model) are compatible with the systems and models prepared by various suppliers and by DRDC Valcartier in-house work teams using the same simulation architecture to ensure integration of the final product. The simulation architecture to be used will be determined at the task authorization stage.

The contractor will work with software for which DRDC Valcartier has site licences (RotorLib, 3D models, etc.). Also, the project encourages continued integration into a database used by several projects. The contractor shall be required to work in DRDC Valcartier laboratories to collect data to be used to create models. For this reason, classified and unclassified work must be done at the DRDC Valcartier site.

Material/support to be supplied by DND to contractor:

If necessary, the contractor may have access to DRDC Valcartier's KARMA database as a source for weapon and platform models. This database shall be made available to the contractor at the start of work. The contractor shall also have access to the technical documentation for the process and tools.

The contractor will have access to the M&S laboratory. DRDC Valcartier may provide a maximum of 4 workstations to the contractor. The contractor shall therefore manage its personnel taking this constraint into account. The contractor will also have access to the documentation available on the KARMA process and architecture. This information is reserved exclusively for the needs of this project.

Material/support to be supplied by contractor to DRDC Valcartier

The contractor shall be responsible for purchasing all additional equipment needed to carry out the project. Purchase of equipment may include but may not be limited electronic component and other supporting materials for simulations. However, all purchases by the contractor are subject to the approval of the technical authority. The equipment and software purchased by the contractor under this contract shall remain the property of DRDC Valcartier and shall be delivered to DRDC Valcartier at the end of this contract. Given the state-of-the-art work to be completed under this contract, the technical authority can require that the material purchased meet certain specifications.

Meetings:

Meetings to be held as required

Once one or several tasks are active, meetings will be held on DRDC Valcartier premises to assess progress made, problems encountered and upcoming work. These meetings may be used to obtain the technical authority's approval once a development phase has been completed. Meeting frequency will be determined during the task authorization stage.

Once one or several tasks are active, a biannual meeting will be held on DRDC Valcartier premises to evaluate management of the tasks and deliverables, determine the technical and administrative problems encountered and anticipated, and evaluate the situation in terms of the schedule.

Reports/deliverables:

All reports must be provided in at least 3 (printed and bounded) copies. A PDF version of each report must also be provided. Reports must be formatted in accordance with DRDC standard The standard can be obtained through the project's scientific authority.

Note: Deliverable and/or matérial must be received through DRDC Valcartier supply section

Reports and deliverables must be sent to:

— the Director General, DRDC Valcartier;

— to the attention of the technical authority.

The main deliverables under this contract are listed below by task. The contractor's work shall be integrated as work progresses into the KARMA Subversion database, in compliance with the instructions set out by the technical authority. At the end of each development cycle for each software component, the data shall be added to the database. In addition to being a configuration management tool, the KARMA database serves as a back-up structure for all important documents in the contract. Some deliverables in paper format will also be requested from the contractor. All writing shall be done in English unless otherwise specified by the technical authority. **The deliverables for each task will be specified in the task authorization, and may include but may not be limited to:**

Deliverables for Task 1

i. Static and dynamic UML diagrams (use cases, class diagrams, etc) of the software components, including the follow-up for requirements as shown by the static tests. These diagrams must be integrated into the existing KARMA UML diagrams;

ii. All source code for the software components produced or revised during this contract;

iii. The compiled version of each software component produced, either in DLL format or in an executable format (functional, tested, verified and validated with the assistance of DRDC Valcartier experts);

iv. The technical documentation for the software components produced throughout this contract. Technical documentation must also be included in the UML diagrams and generated in the XML files and source code, in compliance with the KARMA process;

v. The XML files for the parameters and composition of the entities;

vi. The required documentation must precisely describe the use and maintenance of the software components;

Deliverables for Task 2

i. The verification and validation plan for each model or software component describing, among other things, the verification and validation strategy that will be used during development;

ii. The verification and validation report describing the V&V results obtained during application of the process;

Deliverables for Task 3

i. Static and dynamic UML diagrams (use cases, class diagrams, etc.) of the architecture software components, including the follow-up for requirements as shown by the static tests. These diagrams must be integrated into the existing KARMA UML diagrams;

ii. All source code for the software components produced or revised during this contract;

iii. The compiled version of each software component produced, either in DLL format or in an executable format (functional, tested, verified and validated with the assistance of DRDC Valcartier experts);

iv. The technical documentation for the architecture software components produced throughout this contract. Technical documentation must also be included in the UML diagrams and generated in the XML files and source code, in compliance with the KARMA process;

v. The required documentation must precisely describe the use and maintenance of the architecture software components;

Deliverables for Task 4

i. The data collected during execution of the simulations;

ii. The XML files for the scenarios completed;

iii. A document describing the different scenarios created and the data collected;

Deliverable for Task 5

i. Documents describing the analysis of the engagement simulations;

Deliverables for Task 6

i. The data collected during the collection of data from real systems;

ii. A document describing the different tests carried out to collect the data;

Deliverables for Task 7

i. Comments on the code review, technical specification and integration work done during this period;

Deliverable for Task 8

i. Summary report describing the contractor's activities during demonstration;.

Deliverables for each task authorization approved

i. An end-of-task report describing the task completed, deliverables, budget spent compared with the budget forecasted, problems encountered, lessons learned and improvements to make in similar tasks in the future;

ii. Monthly report describing the follow actions completed in the current;

Deliverable at the end of the contract or last task

i. All of the equipment purchased by the contractor to execute this contract.

Other deliverables

In addition to the disclosure obligation under Section 28 of the general conditions 2040, any Foreground Information must be fully disclosed and documented by the Contractor in the technical reports delivered by the Contractor to the Technical Authority under this Contract.

Acronym:

CM	Countermeasure(s)
DeV	Défense expérimentation Valcartier
DLL	Dynamic Link Library
EO	Electro-Optic
DND	Department of National Defence
M&S	Modelling and Simulation
MSCO	Modelling and Simulation Coordination Office
DRDC	Defence Research and Development Canada
STL	Standard Template Library
UML	Unified Modelling Language
V & V	Verification and Validation
VV & A	Verification, Validation and Accreditation
XML	eXtensible Markup Language

ANNEX B

BASIS OF PAYMENT

(to be completed by Canada at the contract award)

1. LABOUR :

(a) at firm all-inclusive rates, GST/HST extra, in accordance with the following:

Labour Category	**Firm hourly rate from the date of the contract to March 31, 2013**	**Firm hourly rate from April 1, 2013 to March 31, 2014**	**Firm hourly rate from April 1, 2014 to March 31, 2015**	**Firm hourly rate from April 1, 2015 to March 31, 2016**
Modelling (1) Name : _____	$ / hour	$ / hour	$ / hour	$ / hour
Modellling (2) Name : _____	$ / hour	$ / hour	$ / hour	$ / hour
Modellling (3) Name : _____	$ / hour	$ / hour	$ / hour	$ / hour
Computer science (1) Name : _____	$ / hour	$ / hour	$ / hour	$ / hour
Computer science (2) Name : _____	$ / hour	$ / hour	$ / hour	$ / hour

2. EQUIPMENT: at laid down cost without markup

3. RENTALS: at actual cost without markup

4. MATERIALS AND SUPPLIES: at laid down cost without markup

5. TRAVEL AND LIVING EXPENSES:

(a) Canada will not accept any travel and living expenses incurred by the Contractor in the performance of the Work, for:

(i) services provided on site at Defence Research and Development Canada - Valcartier (DRDC-V), located at 2459 Pie-XI Blvd North, Quebec City, Quebec; and

(ii) any travel between the Contractor's place of business and the Québec City Region.

(b) For services to be provided outside the DRDC-V site and the Contractor site, the Contractor will be reimbursed its authorized travel and living expenses reasonably and properly incurred in the performance of the Work, at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the Treasury Board Travel Directive (http://www.tbs-sct.gc.ca/pubs_pol/hrpubs/TBM_113/td-dv_e.asp), and with the other provisions of the directive referring to “travellers”, rather than those referring to “employees”.

(c) Canada will not accept any travel and living expenses incurred by the Contractor as a consequence of any relocation of personnel required to satisfy the terms of this Contract.

(d) All travel must have prior authorization of the Technical Authority. All payments are subject to government audit.

6. SUBCONTRACTS: at actual cost without markup
This item does not include subcontractors of item “Labour”.

7. OTHER DIRECT CHARGES: at actual cost without markup

Estimated Cost to a Limitation of Expenditure: $800,000.00
(GST/HST extra)

With the exception of the firm rates, the amounts shown in the various items specified above are estimates only. Minor changes to these estimates will be accepted for billing purposes as the Work proceeds, provided that these changes have the prior approval of the Technical Authority, and provided that the estimated cost does not exceed the aforementioned Limitation of Expenditure.

ANNEX C

CONTRACTOR DISCLOSURE OF FOREGROUND INFORMATION

Please see reference applicable in your contract to look into Article 1 - Interpretation of 2040 General Conditions to obtain the complete definition of the term Foreground Information and thus to help you to determine the information which must be revealed. http://sacc.pwgsc.gc.ca/sacc/query-e.jsp.

The Contractor shall respond to the following questions:

1. Contract No.:
2. What is the descriptive title of the FIP (Foreground Intellectual Property)?
3. Abbreviated description of the FIP and, if applicable, of the different systems and sub-systems.
4. What is or was the objective of the project?
5. Explain how the FIP meets the objective of the project (for example: the advantage of the new solution, what problem did the FIP resolve or what benefits did the FIP deliver).
6. Under which category (ies) would you best describe the FIP and why: Patents, Inventions, Trade Secrets, Copyright, Industrial Designs, Rights in Integrated Circuit Topography, Know-how, Other?
7. Describe the features or aspects of the FIP that are novel, useful and not obvious.
8. Has the FIP been tested or demonstrated? If yes, please summarise the results.
9. Has any publication or disclosure to others been made? If so, to whom, when, where and how?
10. Provide names and addresses of the inventors.
11. Provide an explicit and detailed description of the FIP developed during the contract (Refer to pertinent section of the technical report, if necessary).

Please specify name and position of person approving / authorizing this disclosure. This person is to sign and date the disclosure.

_____ _____
Name: Date
Title:

(Internal DRDC Valcartier)

_____ _____
Nom Date
Titre : (Technical authority)

ANNEX D

FORM DND 626, *TASK AUTHORIZATION*

The Form DND 626, *Task Authorization*, appended to the bid sollicitation package is to be inserted at this point and forms part of this document.

ANNEX E

SECURITY REQUIREMENTS CHECK LIST

The Security Requirements Check List (SRCL) appended to the bid solicitation package is to be inserted at this point and forms part of this document.

ATTACHMENT 1

FINANCIAL BID PRESENTATION SHEET

1. LABOUR :

(a) at firm all-inclusive rates, GST/HST extra, in accordance with the following:

Note to Bidders:

- The Bidder must propose the number of resources indicated in the Mandatory Criteria of Attachment 3 for each of the category of resources.
- Bidder must quote one rate for each proposed resource, for each period
- If the resource works for a subcontractor, the Bidder must also provide the name of the subcontractor.
- Bidders may propose a number of employees greater than the number of lines available in the following table.

Labour Category	**Firm hourly rate from the date of the contract to March 31, 2013**	**Firm hourly rate from April 1, 2013 to March 31, 2014**	**Firm hourly rate from April 1, 2014 to March 31, 2015**	**Firm hourly rate from April 1, 2015 to March 31, 2016**
Modelling (1) Name : _____	$ / hour	$ / hour	$ / hour	$ / hour
Modellling (2) Name : _____	$ / hour	$ / hour	$ / hour	$ / hour
Modellling (3) Name : _____	$ / hour	$ / hour	$ / hour	$ / hour
Computer science (1) Name : _____	$ / hour	$ / hour	$ / hour	$ / hour
Computer science (2) Name : _____	$ / hour	$ / hour	$ / hour	$ / hour

2. EQUIPMENT: at laid down cost without markup

3. RENTALS: at actual cost without markup

4. MATERIALS AND SUPPLIES: at laid down cost without markup

5. TRAVEL AND LIVING EXPENSES:

(a) Canada will not accept any travel and living expenses incurred by the Contractor in the performance of the Work, for:

(i) services provided on site at Defence Research and Development Canada - Valcartier (DRDC-V), located at 2459 Pie-XI Blvd North, Quebec City, Quebec; and

(ii) any travel between the Contractor's place of business and the Québec City Region.

(b) For services to be provided outside the DRDC-V site and the Contractor site, the Contractor will be reimbursed its authorized travel and living expenses reasonably and properly incurred in the performance of the Work, at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the Treasury Board Travel Directive (http://www.tbs-sct.gc.ca/pubs_pol/hrpubs/TBM_113/td-dv_e.asp), and with the other provisions of the directive referring to “travellers”, rather than those referring to “employees”.

(c) Canada will not accept any travel and living expenses incurred by the Contractor as a consequence of any relocation of personnel required to satisfy the terms of this Contract.

(d) All travel must have prior authorization of the Technical Authority. All payments are subject to government audit.

6. SUBCONTRACTS: at actual cost without markup
This item does not include subcontractors of item “Labour”.

7. OTHER DIRECT CHARGES: at actual cost without markup

Estimated Cost to a Limitation of Expenditure: $800,000.00
(GST/HST extra)

ATTACHMENT 2

EVALUATION OF PRICE

EVALUATION OF PRICE
For evaluation purposes only, the price of the bid will be determined as follows:

Bidders must append an hourly rate for each resource proposed for the contract. An average hourly rate will be calculated for each resource category, and a weighted average will be compiled for all resource categories, as follows:

- Modelling category: 0.55
- Computer science category: 0.45

1 - Calculation of the average hourly rate per resource category :

The average hourly rate will be calculated as being the average hourly rate for the 4 contract years for each resource category. **This average hourly rate will be used for evaluation purposes only and will not be applied to the contract.**

2 - Calculation of bid price :

To establish labour costs, the effort available in terms of hours (see last column in the table below) must be determined. The effort available for each resource category will be calculated as follows:

$$\frac{\text{[total available funding] X [pourcentage of use]}}{\text{[average hourly rate for the resource category]}}$$

Then, the labour costs for a given category are calculated by multiplying the effort available by the average hourly rate.

Finally, the bid price is obtained by calculating the labour costs per category for a given bid.

For example
- available funding = $800,000
- the percentage of use for the Modelling category= 0.55
- If the average hourly rate for the bid (a) = $65, that of bid (b) = $75 and that of bid (c) = $85, then the average hourly rate for the resource category is = $75.

Therefore,
- Effort available = $800,000 x 0.55/$75 = 5,867 hours

and
- Labour costs for the Modelling category, bid (a) = 5,867 hours x $65 =$381,355.00.
- Labour costs for the Modelling category, bid (b) = 5,867 hours x $75 =$440,025.00.
- Labour costs for the Modelling category, bid (c) = 5,867 hours x $85 =$498,695.00.

The following table provides an example of calculation for tree bid prices.

Categories	% of use	Rate A	Price for A	Rate B	Price for B	Rate C	Price for C	Hours
Modelling category	55%	$65.00	$381,355.00	$75.00	$440,025.00	$85.00	$498,695.00	5,867
Computer science category	45%	$60.00	$308,580.00	$70.00	$360,010.00	$80.00	$411,440.00	5,143
Bid Price			**$689,935.00**		**$800,035.00**		**$910,135.00**	

The rates are provided as example and shall not be interpreted like an indication of the experience of the labour categories.

CALCULATION OF LOWEST EVALUATED PRICE PER POINT (EXAMPLE)

OFFERORS	TOTAL POINTS	TOTAL PRICE	Computation	Ratio	
A	70	$689,935.00	689,935/70	9,856.21	
B	85	$800,035.00	800,035/85	9,412.18	Winner
C	90	$910,135.00	910,135/90	10,112.61	

ATTACHMENT 3

MANDATORY AND POINT RATED TECHNICAL CRITERIA

1. MANDATORY TECHNICAL CRITERIA

At bid closing time, the Bidder must comply with the following mandatory technical criteria and provide the necessary documentation to support compliance. Any bid which fails to meet the following mandatory technical criteria will be declared non-responsive. Each criterion should be addressed separately.

- The bidder must propose the number of resources for each of the following three categories (the same person may be proposed for more than one resource category).

    1. Category: modelling (minimum 3 resources)
    2. Category: computer science (minimum 2 resources)

2. POINT RATED TECHNICAL CRITERIA

TRAINING AND EXPERIENCE

- The Bidder must identify the resources proposed for each resource category (modelling and computer science) and should provide their CVs.;
- To be qualified as resource, each proposed person must participate in the project, at least, for 15% of the total hours of the project;
- The same person may be proposed for more than one resource category. Each person will be evaluated separately, and the total score for the resource category will be the average.
- The minimum score indicated must be achieved by the proposed resources average for a category and not by each of the resources proposed.
- For each resource category, the bidder should indicate the experience of the resource in terms of months.

DESCRIPTION	EVALUATION FACTORS	MINIMUM SCORE	MAXIMUM SCORE
1. TRAINING AND EXPERIENCE		**50**	**80**
1.1 Academic training		**17**	**20**
1.1.1 Modelling category	**10 points:** Bachelor's, master's or doctoral degree in physics, engineering physics or electrical or mechanical engineering **5 points:** Bachelor's, master's or doctoral degree in computer engineering **0 points:** All other training	7	10
1.1.2 Computer science category	**10 points:** Bachelor's, master's or doctoral degree in computer science or computer or software engineering **0 points:** All other training	10	10
1.2 Experience of each of the proposed resources		**11**	**20**
1.2.1 Modelling category	**10 points:** 60 months or more of experience in modelling **6 points:** Between 24 and 60 months of experience in modelling **3 points:** Between 12 and 24 months of experience in modelling **0 points:** Less than 12 months of experience in modelling	**5**	10

DESCRIPTION	EVALUATION FACTORS	MINIMUM SCORE	MAXIMUM SCORE
1.2.2 Computer science category	**10 points:** 60 months or more of experience with programming in C++ **6 points:** Between 36 and 60 months of experience with programming in C++ **3 points:** Between12 and 36 months of experience with programming in C++, **0 points:** Less than 12 months of experience with programming in C++	**6**	10
1.3 Experience of each resource proposed		**22**	**40**
1.3.1 Modelling category	— 24 months of experience using Matlab (3 pts) — 24 months of experience using Simulink (4 pts) — 12 months of experience using Mathworks RTW© (2 pts) — 12 months of experience using one or more verification and validation processes (2 pts) — 12 months of experience in the creation of numerical models (3 pts) — 12 months of experience with physical phenomena surrounding electro-optics (2 pts) — 12 months of experience with physical phenomena surrounding guidance, navigation and control (2 pts) — 12 months of experience with physical phenomena surrounding the mechanics of flight (2 pts)	12	20

DESCRIPTION	EVALUATION FACTORS	MINIMUM SCORE	MAXIMUM SCORE
1.3.2 Computer Science category	— 24 months of experience using UML (4 pts) — 12 months of experience using the C++/QT library (2 pts) — 12 months of experience using OpenGL programming (1 pt) — 12 months of experience using XML (2 pts) — 6 months of experience using Matlab (1 pt) — 6 months of experience using Simulink (2 pts) — 6 months of experience using Mathworks RTW© (1 pt) — 12 months of experience using one or more verification and validation processes (3 pts) — 12 months of experience in the creation of numerical models (3 pts) — 6 months of experience with physical phenomena surrounding electro-optics (2 pts)	10	20
2. BIDDER'S EXPERIENCE		**13**	**20**
2.1 Bidder's experience in carrying out R&D projects	**5 points:** The bidder has completed at least 4 R&D projects **3 points:** The bidder has completed 2 or 3 R&D projects **0 points:** The bidder has completed fewer than 2 R&D projects**.**		5
2.2 Bidder's experience in carrying out M&S projects	**5 points:** The bidder has completed at least 4 M&S projects **3 points:** The bidder has completed 2 or 3 M&S projects **0 points:** The bidder has completed fewer than 2 M&S projects**.**		5
2.3 Bidder's experience in carrying out software engineering projects	**5 points:** The bidder has completed at least 4 software engineering projects **3 points:** The bidder has completed 2 or 3 software engineering projects **0 points:** The bidder has completed fewer than 2 software engineering projects.		5

DESCRIPTION	EVALUATION FACTORS	MINIMUM SCORE	MAXIMUM SCORE
2.4 Bidder's experience in carrying out military systems-related projects (platforms, sensors, defence or attack equipment)	**5 points:** The bidder has completed at least 4 military systems-related projects **3 points:** The bidder has completed 2 or 3 military systems-related projects **0 points:** The bidder has completed fewer than 2 military systems-related projects**.**		5
	TOTAL	**63**	**100**

ATTACHMENT 4

CERTIFICATIONS PRECEDENT TO CONTRACT AWARD

1. Federal Contractors Program for Employment Equity - Certification

1.1 Federal Contractors Program - $200,000 or more

1. The Federal Contractors Program (FCP) requires that some suppliers, including a supplier who is a member of a joint venture, bidding for federal government contracts, valued at $200,000 or more (including all applicable taxes), make a formal commitment to implement employment equity. This is a condition precedent to contract award. If the Bidder, or, if the Bidder is a joint venture and if any member of the joint venture, is subject to the FCP, evidence of its commitment must be provided before the award of the Contract.

   Suppliers who have been declared ineligible contractors by Human Resources and Skills Development Canada (HRSDC) are no longer eligible to receive government contracts over the threshold for solicitation of bids as set out in the *Government Contracts Regulations*. Suppliers may be declared ineligible contractors either as a result of a finding of non-compliance by HRSDC, or following their voluntary withdrawal from the FCP for a reason other than the reduction of their workforce to less than 100 employees. Any bids from ineligible contractors, including a bid from a joint venture that has a member who is an ineligible contractor, will be declared non-responsive.

2. If the Bidder does not fall within the exceptions enumerated in 3.(a) or (b) below, or does not have a valid certificate number confirming its adherence to the FCP, the Bidder must fax (819-953-8768) a copy of the signed form LAB 1168, Certificate of Commitment to Implement Employment Equity, to the Labour Branch of HRSDC.

3. The Bidder, or, if the Bidder is a joint venture the member of the joint venture, certifies its status with the FCP, as follows:

   The Bidder or the member of the joint venture

   (a) ( ) is not subject to the FCP, having a workforce of less than 100 full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada;

   (b) ( ) is not subject to the FCP, being a regulated employer under the *Employment Equity Act*, S.C. 1995, c. 44**;**

   (c) ( ) is subject to the requirements of the FCP, having a workforce of 100 or more full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada, but has not previously obtained a certificate number from HRSDC (having not bid on requirements of $200,000 or more), in which case a duly signed certificate of commitment is attached;

   (d) ( ) is subject to the FCP, and has a valid certificate number as follows: _____ (e.g. has not been declared an ineligible contractor by HRSDC.)

   Further information on the FCP is available on the HRSDC Web site

(http://www.hrsdc.gc.ca/eng/labour/equality/fcp/index.shtml).

2. Former Public Servant Certification

Contracts with former public servants (FPS) in receipt of a pension or of a lump sum payment must bear the closest public scrutiny, and reflect fairness in the spending of public funds. In order to comply with Treasury Board policies and directives on contracts with FPS, bidders must provide the information required below.

Definitions

For the purposes of this clause,

"former public servant" is any former member of a department as defined in the *Financial Administration Act*, R.S., 1985, c. F-11, a former member of the Canadian Armed Forces or a former member of the Royal Canadian Mounted Police. A former public servant may be:

(a) an individual;
(b) an individual who has incorporated;
(c) a partnership made of former public servants; or
(d) a sole proprietorship or entity where the affected individual has a controlling or major interest in the entity.

"lump sum payment period" means the period measured in weeks of salary, for which payment has been made to facilitate the transition to retirement or to other employment as a result of the implementation of various programs to reduce the size of the Public Service. The lump sum payment period does not include the period of severance pay, which is measured in a like manner.

"pension" means, in the context of the fee abatement formula, a pension or annual allowance paid under the *Public Service Superannuation Act* (PSSA), R.S., 1985, c. P-36, and any increases paid pursuant to the *Supplementary Retirement Benefits Act*, R.S., 1985, c. S-24 as it affects the PSSA. It does not include pensions payable pursuant to the *Canadian Forces Superannuation Act,* R.S., 1985, c. C-17, the *Defence Services Pension Continuation Act*, 1970, c. D-3, the *Royal Canadian Mounted Police Pension Continuation Act*, 1970, c. R-10, and the *Royal Canadian Mounted Police Superannuation Act*, R.S., 1985, c. R-11, the *Members of Parliament Retiring Allowances Act*, R.S., 1985, c. M-5, and that portion of pension payable to the *Canada Pension Plan Act*, R.S., 1985, c. C-8.

Former Public Servant in Receipt of a Pension

Is the Bidder a FPS in receipt of a pension as defined above? **YES ( ) NO ( )**

If so, the Bidder must provide the following information:

(a) name of former public servant;
(b) date of termination of employment or retirement from the Public Service.

Work Force Reduction Program

Is the Bidder a FPS who received a lump sum payment pursuant to the terms of a work force reduction program? **YES ( ) NO ( )**

If so, the Bidder must provide the following information:

(a) name of former public servant;
(b) conditions of the lump sum payment incentive;
(c) date of termination of employment;
(d) amount of lump sum payment;
(e) rate of pay on which lump sum payment is based;
(f) period of lump sum payment including start date, end date and number of weeks;
(g) number and amount (professional fees) of other contracts subject to the restrictions of a work force reduction program.

For all contracts awarded during the lump sum payment period, the total amount of fees that may be paid to a FPS who received a lump sum payment is $5,000, including the Goods and Services Tax or Harmonized Sales Tax.

3. Canadian Content Certification

This procurement is limited to Canadian services.

The Bidder certifies that:

( ) the service(s) offered is(are) a Canadian service as defined in paragraph 2 of clause A3050T.

3.1 SACC Manual clause A3050T (2010-01-11), Canadian Content Definition

4. Status and Availability of Resources

The Bidder certifies that, should it be awarded a contract as a result of the bid solicitation, every individual proposed in its bid will be available to perform the Work as required by Canada's representatives and at the time specified in the bid solicitation or agreed to with Canada's representatives. If for reasons beyond its control, the Bidder is unable to provide the services of an individual named in its bid, the Bidder may propose a substitute with similar qualifications and experience. The Bidder must advise the Contracting Authority of the reason for the substitution and provide the name, qualifications and experience of the proposed replacement. For the purposes of this clause, only the following reasons will be considered as beyond the control of the Bidder: death, sickness, maternity and parental leave, retirement, resignation, dismissal for cause or termination of an agreement for default.

If the Bidder has proposed any individual who is not an employee of the Bidder, the Bidder certifies that it has the permission from that individual to propose his/her services in relation to the Work to be performed and to submit his/her résumé to Canada. The Bidder must, upon request from the Contracting Authority, provide a written confirmation, signed by the individual, of the permission given to the Bidder and of his/her availability. Failure to comply with the request may result in the bid being declared non-responsive.

5. Education and Experience

The Bidder certifies that all the information provided in the résumés and supporting material submitted with its bid, particularly the information pertaining to education, achievements, experience and work history, has been verified by the Bidder to be true and accurate. Furthermore, the Bidder warrants that every individual proposed by the Bidder for the requirement is capable of performing the Work described in the resulting contract.

6. Language Capability

The Bidder certifies that it has the language capability required to perform the Work, as stipulated in the Statement of Work.

Certification

By submitting a bid, the Bidder certifies that the information submitted by the Bidder in response to the above requirements is accurate and complete.

Government of Canada / Gouvernement du Canada

Contract Number / Numéro du contrat
W7701-125165
Security Classification / Classification de sécurité
UNCLASSIFIED

SECURITY REQUIREMENTS CHECK LIST (SRCL)
LISTE DE VÉRIFICATION DES EXIGENCES RELATIVES À LA SÉCURITÉ (LVERS)

PART A - CONTRACT INFORMATION / PARTIE A - INFORMATION CONTRACTUELLE

1. Originating Government Department or Organization / Ministère ou organisme gouvernemental d'origine: DND

2. Branch or Directorate / Direction générale ou Direction: DRDC

3. a) Subcontract Number / Numéro du contrat de sous-traitance:

3. b) Name and Address of Subcontractor / Nom et adresse du sous-traitant:

4. Brief Description of Work / Brève description du travail
Support contract for Development and demonstration of the VRAPP (Virtual Range for Advanced Platform Protection) capability

5. a) Will the supplier require access to Controlled Goods? / Le fournisseur aura-t-il accès à des marchandises contrôlées? — No / Non: ☐ Yes / Oui: ☒

5. b) Will the supplier require access to unclassified military technical data subject to the provisions of the Technical Data Control Regulations? / Le fournisseur aura-t-il accès à des données techniques militaires non classifiées qui sont assujetties aux dispositions du Règlement sur le contrôle des données techniques? — No / Non: ☐ Yes / Oui: ☒

6. Indicate the type of access required / Indiquer le type d'accès requis

6. a) Will the supplier and its employees require access to PROTECTED and/or CLASSIFIED information or assets? / Le fournisseur ainsi que les employés auront-ils accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS? (Specify the level of access using the chart in Question 7. c) / (Préciser le niveau d'accès en utilisant le tableau qui se trouve à la question 7. c) — No / Non: ☐ Yes / Oui: ☒

6. b) Will the supplier and its employees (e.g. cleaners, maintenance personnel) require access to restricted access areas? No access to PROTECTED and/or CLASSIFIED information or assets is permitted. / Le fournisseur et ses employés (p. ex. nettoyeurs, personnel d'entretien) auront-ils accès à des zones d'accès restreintes? L'accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS n'est pas autorisé. — No / Non: ☒ Yes / Oui: ☐

6. c) Is this a commercial courier or delivery requirement with **no** overnight storage? / S'agit-il d'un contrat de messagerie ou de livraison commerciale **sans** entreposage de nuit? — No / Non: ☒ Yes / Oui: ☐

7. a) Indicate the type of information that the supplier will be required to access / Indiquer le type d'information auquel le fournisseur devra avoir accès

Canada ☒	NATO / OTAN ☒	Foreign / Étranger ☒

7. b) Release restrictions / Restrictions relatives à la diffusion

Canada	NATO / OTAN	Foreign / Étranger
No release restrictions / Aucune restriction relative à la diffusion ☐	All NATO countries / Tous les pays de l'OTAN ☒	No release restrictions / Aucune restriction relative à la diffusion
Not releasable / À ne pas diffuser ☐		
Restricted to: / Limité à : Specify country(ies): / Préciser le(s) pays : Australie, Angleterre et États-Unis, Permanent Residents of Canada ☒	Restricted to: / Limité à : Specify country(ies): / Préciser le(s) pays : ☐	Restricted to: / Limité à : Specify country(ies): / Préciser le(s) pays : Australie, Angleterre et États-Unis, Permanent residents of Canada ☒

7. c) Level of information / Niveau d'information

Canada	NATO	Foreign / Étranger
PROTECTED A / PROTÉGÉ A ☒	NATO UNCLASSIFIED / NATO NON CLASSIFIÉ ☒	PROTECTED A / PROTÉGÉ A ☐
PROTECTED B / PROTÉGÉ B ☒	NATO RESTRICTED / NATO DIFFUSION RESTREINTE ☒	PROTECTED B / PROTÉGÉ B ☐
PROTECTED C / PROTÉGÉ C ☐	NATO CONFIDENTIAL / NATO CONFIDENTIEL ☒	PROTECTED C / PROTÉGÉ C ☐
CONFIDENTIAL / CONFIDENTIEL ☒	NATO SECRET / NATO SECRET ☒	CONFIDENTIAL / CONFIDENTIEL ☒
SECRET / SECRET ☒	COSMIC TOP SECRET / COSMIC TRÈS SECRET ☐	SECRET / SECRET ☒
TOP SECRET / TRÈS SECRET ☐		TOP SECRET / TRÈS SECRET ☐
TOP SECRET (SIGINT) / TRÈS SECRET (SIGINT) ☐		TOP SECRET (SIGINT) / TRÈS SECRET (SIGINT) ☐

PART A *(continued)* / PARTIE A *(suite)*

8. Will the supplier require access to PROTECTED and/or CLASSIFIED COMSEC information or assets? ☒ No / Non ☐ Yes / Oui
Le fournisseur aura-t-il accès à des renseignements ou à des biens COMSEC désignés PROTÉGÉS et/ou CLASSIFIÉS?
If Yes, indicate the level of sensitivity:
Dans l'affirmative, indiquer le niveau de sensibilité :

9. Will the supplier require access to extremely sensitive INFOSEC information or assets? ☒ No / Non ☐ Yes / Oui
Le fournisseur aura-t-il accès à des renseignements ou à des biens INFOSEC de nature extrêmement délicate?

Short Title(s) of material / Titre(s) abrégé(s) du matériel :
Document Number / Numéro du document :

PART B - PERSONNEL (SUPPLIER) / PARTIE B - PERSONNEL (FOURNISSEUR)

10. a) Personnel security screening level required / Niveau de contrôle de la sécurité du personnel requis

☒ RELIABILITY STATUS / COTE DE FIABILITÉ	☐ CONFIDENTIAL / CONFIDENTIEL	☒ SECRET / SECRET	☐ TOP SECRET / TRÈS SECRET
☐ TOP SECRET– SIGINT / TRÈS SECRET – SIGINT	☐ NATO CONFIDENTIAL / NATO CONFIDENTIEL	☒ NATO SECRET / NATO SECRET	☐ COSMIC TOP SECRET / COSMIC TRÈS SECRET
☐ SITE ACCESS / ACCÈS AUX EMPLACEMENTS			

Special comments:
Commentaires spéciaux : Une partie des travaux sera effectuée sur le site de RDDC Valcartier

NOTE: If multiple levels of screening are identified, a Security Classification Guide must be provided.
REMARQUE : Si plusieurs niveaux de contrôle de sécurité sont requis, un guide de classification de la sécurité doit être fourni.

10. b) May unscreened personnel be used for portions of the work? ☐ No / Non ☒ Yes / Oui
Du personnel sans autorisation sécuritaire peut-il se voir confier des parties du travail?
If Yes, will unscreened personnel be escorted? ☐ No / Non ☒ Yes / Oui
Dans l'affirmative, le personnel en question sera-t-il escorté?

PART C - SAFEGUARDS (SUPPLIER) / PARTIE C - MESURES DE PROTECTION (FOURNISSEUR)

INFORMATION / ASSETS / RENSEIGNEMENTS / BIENS

11. a) Will the supplier be required to receive and store PROTECTED and/or CLASSIFIED information or assets on its site or premises? ☒ No / Non ☐ Yes / Oui
Le fournisseur sera-t-il tenu de recevoir et d'entreposer sur place des renseignements ou des biens PROTÉGÉS et/ou CLASSIFIÉS?

11. b) Will the supplier be required to safeguard COMSEC information or assets? ☒ No / Non ☐ Yes / Oui
Le fournisseur sera-t-il tenu de protéger des renseignements ou des biens COMSEC?

PRODUCTION

11. c) Will the production (manufacture, and/or repair and/or modification) of PROTECTED and/or CLASSIFIED material or equipment occur at the supplier's site or premises? ☒ No / Non ☐ Yes / Oui
Les installations du fournisseur serviront-elles à la production (fabrication et/ou réparation et/ou modification) de matériel PROTÉGÉ et/ou CLASSIFIÉ?

INFORMATION TECHNOLOGY (IT) MEDIA / SUPPORT RELATIF À LA TECHNOLOGIE DE L'INFORMATION (TI)

11. d) Will the supplier be required to use its IT systems to electronically process, produce or store PROTECTED and/or CLASSIFIED information or data? ☒ No / Non ☐ Yes / Oui
Le fournisseur sera-t-il tenu d'utiliser ses propres systèmes informatiques pour traiter, produire ou stocker électroniquement des renseignements ou des données PROTÉGÉS et/ou CLASSIFIÉS?

11. e) Will there be an electronic link between the supplier's IT systems and the government department or agency? ☒ No / Non ☐ Yes / Oui
Disposera-t-on d'un lien électronique entre le système informatique du fournisseur et celui du ministère ou de l'agence gouvernementale?

PART C - *(continued)* / PARTIE C - *(suite)*

For users completing the form **manually** use the summary chart below to indicate the category(ies) and level(s) of safeguarding required at the supplier's site(s) or premises.
Les utilisateurs qui remplissent le formulaire **manuellement** doivent utiliser le tableau récapitulatif ci-dessous pour indiquer, pour chaque catégorie, les niveaux de sauvegarde requis aux installations du fournisseur.

For users completing the form **online** (via the Internet), the summary chart is automatically populated by your responses to previous questions.
Dans le cas des utilisateurs qui remplissent le formulaire **en ligne** (par Internet), les réponses aux questions précédentes sont automatiquement saisies dans le tableau récapitulatif.

SUMMARY CHART / TABLEAU RÉCAPITULATIF

Category Catégorie	PROTECTED PROTÉGÉ			CLASSIFIED CLASSIFIÉ			NATO				COMSEC					
	A	B	C	CONFIDENTIAL CONFIDENTIEL	SECRET	TOP SECRET TRÈS SECRET	NATO RESTRICTED NATO DIFFUSION RESTREINTE	NATO CONFIDENTIAL NATO CONFIDENTIEL	NATO SECRET	COSMIC TOP SECRET COSMIC TRÈS SECRET	PROTECTED PROTÉGÉ A	PROTECTED PROTÉGÉ B	PROTECTED PROTÉGÉ C	CONFIDENTIAL CONFIDENTIEL	SECRET	TOP SECRET TRES SECRET
Information / Assets Renseignements / Biens	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Production	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
IT Media / Support TI	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
IT Link / Lien électronique	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

12. a) Is the description of the work contained within this SRCL PROTECTED and/or CLASSIFIED?
La description du travail visé par la présente LVERS est-elle de nature PROTÉGÉE et/ou CLASSIFIÉE?

☒ No / Non ☐ Yes / Oui

If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification".
Dans l'affirmative, classifier le présent formulaire en indiquant le niveau de sécurité dans la case intitulée « Classification de sécurité » au haut et au bas du formulaire.

12. b) Will the documentation attached to this SRCL be PROTECTED and/or CLASSIFIED?
La documentation associée à la présente LVERS sera-t-elle PROTÉGÉE et/ou CLASSIFIÉE?

☒ No / Non ☐ Yes / Oui

If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification" and indicate with attachments (e.g. SECRET with Attachments).
Dans l'affirmative, classifier le présent formulaire en indiquant le niveau de sécurité dans la case intitulée « Classification de sécurité » au haut et au bas du formulaire et indiquer qu'il y a des pièces jointes (p. ex. SECRET avec des pièces jointes).

TASK/POSITION	SEC CLEARANCE	CITIZENSHIP RESTRICTION
ENGINEER	SECRET	US CITIZEN/CANADIAN CITIZEN/AUSTRALIAN CITIZEN/ UK CITIZEN OR PERMANENT RESIDENT OF CANADA
CONTRAT ADMIN	RELIABILITY	NO RESTRICTION
HARDWARE ARCHITECH	SECRET	US CITIZEN/CANADIAN CITIZEN/AUSTRALIAN CITIZEN/ UK CITIZEN OR PERMANENT RESIDENT OF CANADA
SOFTWARE ARCHITECH	SECRET OR NATO SECRET	US CITIZEN/CANADIAN CITIZEN/AUSTRALIAN CITIZEN/ UK CITIZEN / NATO COUNTRY CITIZEN OR PERMANENT RESIDENT OF CANADA
SOFTWARE ANALYST	SECRET	US CITIZEN/CANADIAN CITIZEN/AUSTRALIAN CITIZEN/ UK CITIZEN OR PERMANENT RESIDENT OF CANADA