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**SOLICITATION AMENDMENT  
MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

**Comments - Commentaires**

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

**Issuing Office - Bureau de distribution**  
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601-1550, Avenue d'Estimauville  
Québec  
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G1J 0C7

<b>Title - Sujet</b> Weapon System Simulation Analysis	
<b>Solicitation No. - N° de l'invitation</b> W7701-196948/A	<b>Amendment No. - N° modif.</b> 001
<b>Client Reference No. - N° de référence du client</b> W7701-196948	<b>Date</b> 2019-12-20
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$QCL-051-17819	
<b>File No. - N° de dossier</b> QCL-9-42108 (051)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2020-01-21</b>	
<b>Time Zone</b> Fuseau horaire Heure Avancée de l'Est HAE	
<b>F.O.B. - F.A.B.</b> Specified Herein - Précisé dans les présentes	
<b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input checked="" type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Fortin, Marie-Claire	<b>Buyer Id - Id de l'acheteur</b> qcl051
<b>Telephone No. - N° de téléphone</b> (418) 649-2764 ( )	<b>FAX No. - N° de FAX</b> (418) 648-2209
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

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

## AMENDMENT 001

### Weapon systems analysis, modeling and simulation

#### SECTION A – QUESTIONS AND ANSWERS

##### Question 1

Are the requested services for the above-referenced solicitation currently being provided or have they been provided previously? If so, please identify the means by which such services have been supplied (e.g., direct and or term employee, personal services contract, or contracted services through a company). If the services were contracted through a company, please provide the name of the contractor, and the duration and dollar amount of the contract(s).

##### Answer 1

Two task authorization contracts were awarded in 2015.  
See on Buy and Sell:

W7701-155932/001/QCL  
W7701-155932/002/QCL

##### Question 2

Are degrees in physics (Bachelor, Master's, Doctorate) recognized as adequate training for resources in the categories *Scientific Category 1* and *Scientific Category 2*?

##### Answer 2

For Scientific Categories 1 and 2, the contract requires academic training for each of the proposed resources in:

- Bachelor, Masters, Doctorate: electrical, mechanical, physics, or aerospace engineering

A diploma in Physics (Bachelor, Masters, Doctorate) is acceptable.

##### Question 3

Are computer science degrees (computer science, bachelor's, master's, doctorate) recognized as adequate training for resources in the Scientific Category 3 and Scientific Category 4 categories?

##### Answer 3

For Scientific Categories 3 and 4, the contract requires academic training for each of the proposed resources in:

- Bachelor, Masters, Doctorate: Software or computer engineering

A diploma in computer science (Bachelor, Masters, Doctorate) is acceptable.

#### Question 4

In the statement of work (Annex A: Section 4.2, Section 4.3 and Section 6.3), the term "MATLAB / Simulink" is used to designate the software that must be used for the performance of analysis, modeling and simulation activities.

Like Simulink, is the modeling experience in Matlab considered as relevant modeling experience for the criteria: 3.1.2.1, 3.1.2.2, 3.1.2.4, 3.2.2.1, and 3.2.2.2?

#### Answer 4

Yes, Matlab experience in modelling is considered as pertinent experience for the given criteria. See the evaluation scale inserted in Section B - Amendment.

#### Question 5

Does the Crown recognize the experience acquired during graduate studies, as it does with the experience acquired within the framework of a cooperative program (ref. Section 7.1.2.1.2 item d), if it can be demonstrated that it is relevant experience?

#### Answer 5

Yes, experience acquired during graduate studies, as well as experience acquired within the framework of a cooperative program, is recognized as relevant experience.

### SECTION B – AMENDMENT

#### ATTACHMENT 3 – MANDATORY AND POINT RATED TECHNICAL CRITERIA

##### DELETE SENTENCE:

Projects carried out as part of an academic education program are not eligible.

##### DELETE :

<b>3.</b>	<b>RESOURCES</b> If more than one resource is proposed within a resource category, each resource will be evaluated individually. The scores obtained by each resource for the given criterion will be added up and then divided by the number of proposed resources to obtain an average. This average will be the score accorded to the bidder for that criterion. Each resource must obtain the required minimum to be considered. The number of resources considered in the average must be equal to or greater than the quantity of resources required for the mandatory criterion corresponding to this category.		
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<b>3.1</b>	<b>SCIENTIFIC CATEGORY 1: SENIOR LEVEL ENGINEER</b>		<b>80</b>	<b>30</b>
<b>3.1.1</b>	<b>Academic training (domain and level of diploma) of each of the proposed resources.</b>	<b>5 pts:</b> Bachelor in electrical, mechanical, physics, or aerospace engineering <b>7.5 pts:</b> Master in electrical, mechanical, physics, or aerospace engineering <b>10 pts:</b> Doctorate in electrical, mechanical, physics, or aerospace engineering	10	5
<b>3.1.2</b>	<b>Work experience: Senior level engineer</b>			
<b>3.1.2.1</b>	<b>Experience in :  Physic based modeling in Simulink and/or C++.</b>	<b>0 pt</b> for less than 6 months <b>5 pts</b> for 6 months and more and less than or equal to 12 months <b>10 pts</b> for more than 12 months and less than or equal to 24 months <b>15 pts</b> for more than 24 months and less than or equal to 36 months <b>20 pts</b> for more than 36 months and less than or equal to 48 months <b>25 pts</b> for more than 48 months and less than or equal to 60 months <b>30 pts</b> for more than 60 months	30	S/O
<b>3.1.2.2</b>	<b>Experience in weapon component and model development, implementation and application in Simulink and/or C++ with application to unguided and/or guided weapons.</b>	<b>0 pt</b> for less than 6 months <b>2.5 pts</b> for 6 months and more and less than or equal to 12 months <b>5 pts</b> for more than 12 months and less than or equal to 24 months <b>7.5 pts</b> for more than 24 months and less than or equal to 36 months <b>10 pts</b> for more than 36 months and less than or equal to 48 months <b>12.5 pts</b> for more than 48 months and less than or equal to 60 months <b>15 pts</b> for more than 60 months	15	5
<b>3.1.2.3</b>	<b>Experience in option analysis and trade-off studies  a) option analysis and trade-off studies execution</b>	a) option analysis and trade-off studies execution <b>0 pt</b> for less than or equal to 3 months <b>1 pt</b> for more than 3 months and less than or equal to 6 months	10	S/O

	<b>b) option analysis and trade-off studies analysis</b>	<p><b>3 pts</b> for more than 6 months and less than or equal to 12 months <b>5 pts</b> for more than 12 months</p> <p>b) option analysis and trade-off studies analysis <b>0 pt</b> for less than or equal to 3 months <b>1 pt</b> for more than 3 months and less than or equal to 6 months <b>3 pts</b> for more than 6 months and less than or equal to 12 months <b>5 pts</b> for more than 12 months</p>		
3.1.2.4	<b>Experience in modeling with Simulink.</b>	<p><b>0 pt</b> for less than or equal to 3 months <b>5 pts</b> for more than 3 months and less than or equal to 12 months fulltime, <b>7.5 pts</b> for more than 12 months and less than or equal to 24 months fulltime, <b>10 pts</b> for more than 24 months fulltime.</p> <p>Note: <u>This item can concur with projects presented in Sections 3.1.2.1 through 3.1.2.3.</u></p>	10	S/O
3.1.2.5	<b>Experience in performing open literature searches on technical systems</b>	<p><b>0 pt</b> for less than 2 weeks , <b>0.5 pt</b> for 2 weeks and more and less than or equal to 1 month <b>2.5 pts</b> for more than 1 month and less than or equal to 2 months <b>5 pts</b> for more than 2 months.</p>	5	S/O
3.2	<b>SCIENTIFIC CATEGORY 2: JUNIOR / INTERMEDIATE LEVEL ENGINEER</b>		<b>50</b>	<b>15</b>
3.2.1	<b>Academic training (domain and level of diploma) of each of the proposed resources.</b>	<p><b>5 pts:</b> Bachelor in electrical, mechanical, physics, or aerospace engineering <b>7.5 pts:</b> Master in electrical, mechanical, physics, or aerospace engineering <b>10 pts:</b> Doctorate in electrical, mechanical, physics, or aerospace engineering</p>	10	5
3.2.2	<b>Work experience: Junior/intermediate level engineer</b>			

3.2.2.1	<b>Experience in physic based modeling in Simulink and/or C++</b>	<b>0 pt</b> for less than 3 months <b>5 pts</b> for for 3 months and more and less than or equal to 6 months <b>10 pts</b> for more than 6 months and less than or equal to 12 months <b>15 pts</b> for more than 12 months and less than or equal to 18 months <b>20 pts</b> for more than 18 months and less than or equal to 24 months <b>25 pts</b> for more than 24 months and less than or equal to 36 months <b>30 pts</b> for more than 36 months	30	S/O
3.2.2.2	<b>Experience in modeling with Simulink.</b>	<b>0 pt</b> for less than or equal to 3 months <b>2.5 pts</b> for more than 3 months and less than or equal to 6 months <b>5 pts</b> for more than 6 months and less than or equal to 12 months <b>7.5 pts</b> for more than 12 months and less than or equal to 24 months <b>10 pts</b> for more than 24 months  <u>Note: This item can concur with projects presented in Sections 3.2.2.1</u>	10	S/O
3.3	<b>SCIENTIFIC CATEGORY 3: SENIOR LEVEL PROGRAMMER / ANALYST</b>		<b>60</b>	<b>25</b>
3.3.1	<b>Academic training (domain and level of diploma) of each of the proposed resources.</b>	<b>5 pts:</b> Bachelor in software or computer engineering <b>7.5 pts:</b> Master in software or computer engineering <b>10 pts:</b> Doctorate in software or computer engineering	10	5
3.3.2	<b>Work experience – level senior programmer/analyst</b>			
3.3.2.1	<b>Experience in applying best practices of software engineering</b>  This considers most, perhaps not all, of the following: the art of	<b>0 pt</b> for less than 12 months <b>5 pt</b> for more than or equal to 12 months and less than or equal to 24 months <b>7.5 pts</b> for more than 24 months and less than or equal to 36 months	20	S/O

	software development, configuration control, documentation, and the formal process of doing software development the 'right' way (Use of configuration tools, proper documentation, process control).	<b>10 pts</b> for more than 36 months and less than or equal to 48 months <b>15 pts</b> for more than 48 months and less than or equal to 60 months, <b>20 pts</b> for more than 60 months		
<b>3.3.2.2</b>	<b>Experience in Modeling and Simulation Architectures</b>	<b>0 pt</b> for less than 3 months <b>1 pt</b> for more than or equal to 3 months and less than or equal to 12 months <b>3 pts</b> for more than 12 months and less than or equal to 24 months <b>5 pts</b> for more than 24 months	5	S/O
<b>3.3.2.3</b>	<b>Experience in software development : C++ and at least 1 other programming language, as Java, Matlab, Simulink or FORTRAN</b>	<b>0 pt</b> for less than 12 months <b>5 pts</b> for more than or equal to 12 months and less than or equal to 24 months <b>7.5 pts</b> for more than 24 months and less than or equal to 36 months <b>10 pts</b> for more than 36 months	10	S/O
<b>3.3.2.4</b>	<b>Experience in development of modeling and simulation tools</b>  <i>Total points: score of senior programmer / analyst</i>	<b>0 pt</b> for less than 3 months <b>5 pts</b> for more than or equal to 3 months and less than or equal to 12 months <b>7.5 pts</b> for more than 12 months and less than or equal to 24 months <b>10 pts</b> for more than 24 months	10	S/O
<b>3.3.2.5</b>	<b>Experience in architecture definition, implementation, and configuration of data farming computer systems.</b>	<b>0 pt</b> for less than 1 month <b>1 pt</b> for more than or equal to 1 month and less than or equal to 2 months <b>3 pts</b> for more than 2 months and less than or equal to 4 months <b>5 pts</b> for more than 4 months	5	S/O
<b>3.4</b>	<b>SCIENTIFIC CATEGORY 4: JUNIOR / INTERMEDIATE LEVEL PROGRAMMER / ANALYST</b>		<b>30</b>	<b>10</b>
<b>3.4.1</b>	<b>Academic training (domain and level of diploma) of the proposed resource.</b>	<b>5 pts:</b> Bachelor in software or computer engineering <b>7.5 pts:</b> Master in software or computer engineering <b>10 pts:</b> Doctorate in software or computer engineering	10	5

<b>3.4.2</b>	<b>Work experience – junior/intermediate level programmer/analyst</b>			
<b>3.4.2.1</b>	<b>Experience in software development : C++ and at least 1 other programming language, as Java, Matlab, Simulink or FORTRAN</b>	<b>0 pt</b> for less than 3 months <b>2.5 pts</b> for more than or equal to 3 months and less than or equal to 6 months <b>5 pts</b> for more than or equal to 6 months and less than or equal to 12 months <b>7.5 pts</b> for more than 12 months and less than or equal to 24 months <b>10 pts</b> for more than 24 months	10	S/O
<b>3.4.2.2</b>	<b>Experience in development of modeling and simulation tools</b>	<b>0 pt</b> for less than 3 months <b>2.5 pts</b> for more than or equal to 3 months and less than or equal to 6 months <b>5.0 pts</b> for more than or equal to 6 months and less than or equal to 12 months <b>7.5 pts</b> for more than 12 months and less than or equal to 24 months <b>10 pts</b> for more than 24 months	10	S/O

**INSERT :** (new text is underlined)

<b>3.</b>	<b>RESOURCES</b> If more than one resource is proposed within a resource category, each resource will be evaluated individually. The scores obtained by each resource for the given criterion will be added up and then divided by the number of proposed resources to obtain an average. This average will be the score accorded to the bidder for that criterion. Each resource must obtain the required minimum to be considered. The number of resources considered in the average must be equal to or greater than the quantity of resources required for the mandatory criterion corresponding to this category.		
<b>3.1</b>	<b>SCIENTIFIC CATEGORY 1: SENIOR LEVEL ENGINEER</b>	<b>80</b>	<b>30</b>



3.1.1	<b>Academic training (domain and level of diploma) of each of the proposed resources.</b>	<p><b>5 pts:</b> Bachelor in electrical, mechanical, physics, or aerospace engineering  <b>7.5 pts:</b> Master in electrical, mechanical, physics, or aerospace engineering  <b>10 pts:</b> Doctorate in electrical, mechanical, physics, or aerospace engineering</p>	10	5
3.1.2	<b>Work experience: Senior level engineer</b>			
3.1.2.1	<p><b>Experience in :</b></p> <p><b>Physic based modeling in Simulink and/or C++, <u>and/or Matlab.</u></b></p>	<p><del>0 pt for less than 6 months</del>  <del>5 pts for 6 months and more and less than or equal to 12 months</del>  <del>10 pts for more than 12 months and less than or equal to 24 months</del>  <del>15 pts for more than 24 months and less than or equal to 36 months</del>  <del>20 pts for more than 36 months and less than or equal to 48 months</del>  <del>25 pts for more than 48 months and less than or equal to 60 months</del>  <del>30 pts for more than 60 months</del></p> <p><u>IF ONLY Matlab:</u>  <u>0 pt for less than 3 months</u>  <u>2.5 pts for 3 months and more and less than or equal to 6 months</u>  <u>5 pts for more than 6 months and less than or equal to 12 months</u>  <u>7.5 pts for more than 12 months and less than or equal to 18 months</u>  <u>10 pts for more than 18 months and less than or equal to 24 months</u>  <u>12.5 pts for more than 24 months and less than or equal to 36 months</u>  <u>15 pts for more than 36 months</u></p> <p><u>Si Matlab/Simulink and/or C++:</u>  <u>0 pt for less than 3 months</u>  <u>5 pts for for 3 months and more and less than or equal to 6 months</u>  <u>10 pts for more than 6 months and less than or equal to 12 months</u>  <u>15 pts for more than 12 months and less than or equal to 18 months</u>  <u>20 pts for more than 18 months and less than or equal to 24 months</u>  <u>25 pts for more than 24 months and less than or equal to 36 months</u></p>	30	S/O

		<b>30 pts for more than 36 months</b>		
<b>3.1.2.2</b>	<b>Experience in weapon component and model development, implementation and application in Simulink and/or C++ and/or Matlab with application to unguided and/or guided weapons.</b>	<p><del>0 pt for less than 6 months</del>  <del>2.5 pts for 6 months and more and less than or equal to 12 months</del>  <del>5 pts for more than 12 months and less than or equal to 24 months</del>  <del>7.5 pts for more than 24 months and less than or equal to 36 months</del>  <del>10 pts for more than 36 months and less than or equal to 48 months</del>  <del>12.5 pts for more than 48 months and less than or equal to 60 months</del>  <del>15 pts for more than 60 months</del></p> <p><u>IF ONLY Matlab:</u>  <b>0 pt</b> for less than 6 months  <b>1.25 pts</b> for 6 months and more and less than or equal to 12 months  <b>2.5 pts</b> for more than 12 months and less than or equal to 24 months  <b>3.75 pts</b> for more than 24 months and less than or equal to 36 months  <b>5 pts</b> for more than 36 months and less than or equal to 48 months  <b>6.25 pts</b> for more than 48 months and less than or equal to 60 months  <b>7.5 pts</b> for more than 60 months</p> <p><u>Si Matlab/Simulink and/or C++:</u>  <b>0 pt</b> for less than 6 months  <b>2.5 pts</b> for 6 months and more and less than or equal to 12 months  <b>5 pts</b> for more than 12 months and less than or equal to 24 months  <b>7.5 pts</b> for more than 24 months and less than or equal to 36 months  <b>10 pts</b> for more than 36 months and less than or equal to 48 months  <b>12.5 pts</b> for more than 48 months and less than or equal to 60 months  <b>15 pts</b> for more than 60 months</p>	15	5
<b>3.1.2.3</b>	<p><b>Experience in option analysis and trade-off studies</b></p> <p><b>a) option analysis and trade-off studies execution</b></p> <p><b>b) option analysis and trade-off studies analysis</b></p>	<p>a) option analysis and trade-off studies execution</p> <p><b>0 pt</b> for less than or equal to 3 months  <b>1 pt</b> for more than 3 months and less than or equal to 6 months  <b>3 pts</b> for more than 6 months and less than or equal to 12 months  <b>5 pts</b> for more than 12 months</p>	10	S/O

		<p>b) option analysis and trade-off studies analysis</p> <p><b>0 pt</b> for less than or equal to 3 months</p> <p><b>1 pt</b> for more than 3 months and less than or equal to 6 months</p> <p><b>3 pts</b> for more than 6 months and less than or equal to 12 months</p> <p><b>5 pts</b> for more than 12 months</p>		
3.1.2.4	<b>Experience in modeling with Simulink <u>and/or</u> Matlab</b>	<p><del>0 pt for less than or equal to 3 months</del></p> <p><del>5 pts for more than 3 months and less than or equal to 12 months fulltime,</del></p> <p><del>7.5 pts for more than 12 months and less than or equal to 24 months fulltime,</del></p> <p><del>10 pts for more than 24 months fulltime.</del></p> <p><u>IF ONLY Matlab:</u></p> <p><b>0 pt</b> for less than or equal to 3 months</p> <p><b>1.25 pts</b> for more than 3 months and less than or equal to 6 months</p> <p><b>2.5 pts</b> for more than 6 months and less than or equal to 12 months</p> <p><b>3.75 pts</b> for more than 12 months and less than or equal to 24 months</p> <p><b>5 pts</b> for more than 24 months</p> <p><u>If Matlab/Simulink:</u></p> <p><b>0 pt</b> for less than or equal to 3 months</p> <p><b>2.5 pts</b> for more than 3 months and less than or equal to 6 months</p> <p><b>5 pts</b> for more than 6 months and less than or equal to 12 months</p> <p><b>7.5 pts</b> for more than 12 months and less than or equal to 24 months</p> <p><b>10 pts</b> for more than 24 months</p> <p>Note: This item can concur with projects presented in Sections 3.1.2.1 through 3.1.2.3.</p>	10	S/O
3.1.2.5	<b>Experience in performing open literature searches on technical systems</b>	<p><b>0 pt</b> for less than 2 weeks ,</p> <p><b>0.5 pt</b> for 2 weeks and more and less than or equal to 1 month</p> <p><b>2.5 pts</b> for more than 1 month and less than or equal to 2 months</p> <p><b>5 pts</b> for more than 2 months.</p>	5	S/O
3.2	<b>SCIENTIFIC CATEGORY 2: JUNIOR / INTERMEDIATE LEVEL ENGINEER</b>		50	15

3.2.1	<b>Academic training (domain and level of diploma) of each of the proposed resources.</b>	<p><b>5 pts:</b> Bachelor in electrical, mechanical, physics, or aerospace engineering  <b>7.5 pts:</b> Master in electrical, mechanical, physics, or aerospace engineering  <b>10 pts:</b> Doctorate in electrical, mechanical, physics, or aerospace engineering</p>	10	5
3.2.2	<b>Work experience: Junior/intermediate level engineer</b>			
3.2.2.1	<b>Experience in physic based modeling in Simulink and/or C++ <u>and/or Matlab.</u></b>	<p><del>0 pt for less than 3 months</del>  <del>5 pts for for 3 months and more and less than or equal to 6 months</del>  <del>10 pts for more than 6 months and less than or equal to 12 months</del>  <del>15 pts for more than 12 months and less than or equal to 18 months</del>  <del>20 pts for more than 18 months and less than or equal to 24 months</del>  <del>25 pts for more than 24 months and less than or equal to 36 months</del>  <del>30 pts for more than 36 months</del>  <del>0 pt for less than 6 months</del>  <del>5 pts for 6 months and more and less than or equal to 12 months</del>  <del>10 pts for more than 12 months and less than or equal to 24 months</del>  <del>15 pts for more than 24 months and less than or equal to 36 months</del>  <del>20 pts for more than 36 months and less than or equal to 48 months</del>  <del>25 pts for more than 48 months and less than or equal to 60 months</del>  <del>30 pts for more than 60 months</del></p> <p><u>IF ONLY Matlab:</u>  <u>0 pt for less than 3 months</u>  <u>2.5 pts for 3 months and more and less than or equal to 6 months</u>  <u>5 pts for more than 6 months and less than or equal to 12 months</u>  <u>7.5 pts for more than 12 months and less than or equal to 18 months</u>  <u>10 pts for more than 18 months and less than or equal to 24 months</u>  <u>12.5 pts for more than 24 months and less than or equal to 36 months</u>  <u>15 pts for more than 36 months</u></p> <p><u>Si Matlab/Simulink and/or C++:</u></p>	30	S/O

		<p><b>0 pt</b> for less than 3 months  <b>5 pts</b> for for 3 months and more and less than or equal to 6 months  <b>10 pts</b> for more than 6 months and less than or equal to 12 months  <b>15 pts</b> for more than 12 months and less than or equal to 18 months  <b>20 pts</b> for more than 18 months and less than or equal to 24 months  <b>25 pts</b> for more than 24 months and less than or equal to 36 months  <b>30 pts</b> for more than 36 months</p>		
3.2.2.2	<p><b>Experience in modeling with Simulink <u>and/or Matlab</u></b></p>	<p><del>0 pt</del> for less than or equal to 3 months  <del>2.5 pts</del> for more than 3 months and less than or equal to 6 months  <del>5 pts</del> for more than 6 months and less than or equal to 12 months  <del>7.5 pts</del> for more than 12 months and less than or equal to 24 months  <del>10 pts</del> for more than 24 months</p> <p>IF ONLY Matlab:  <b>0 pt</b> for less than or equal to 3 months  <b>1.25 pts</b> for more than 3 months and less than or equal to 6 months  <b>2.5 pts</b> for more than 6 months and less than or equal to 12 months  <b>3.75 7pts</b> for more than 12 months and less than or equal to 24 months  <b>5 pts</b> for more than 24 months</p> <p>If Matlab/Simulink:  <b>0 pt</b> for less than or equal to 3 months  <b>2.5 pts</b> for more than 3 months and less than or equal to 6 months  <b>5 pts</b> for more than 6 months and less than or equal to 12 months  <b>7.5 pts</b> for more than 12 months and less than or equal to 24 months  <b>10 pts</b> for more than 24 months</p> <p>Note: This item can concur with projects presented in Sections 3.2.2.1</p>	10	S/O
3.3	<p><b>SCIENTIFIC CATEGORY 3: SENIOR LEVEL PROGRAMMER / ANALYST</b></p>		60	25

3.3.1	<b>Academic training (domain and level of diploma) of each of the proposed resources.</b>	<p><b>5 pts:</b> Bachelor in software or computer engineering</p> <p><b>7.5 pts:</b> Master in software or computer engineering</p> <p><b>10 pts:</b> Doctorate in software or computer engineering</p>	10	5
3.3.2	<b>Work experience – level senior programmer/analyst</b>			
3.3.2.1	<p><b>Experience in applying best practices of software engineering</b></p> <p>This considers most, perhaps not all, of the following: the art of software development, configuration control, documentation, and the formal process of doing software development the 'right' way (Use of configuration tools, proper documentation, process control).</p>	<p><b>0 pt</b> for less than 12 months</p> <p><b>5 pt</b> for more than or equal to 12 months and less than or equal to 24 months</p> <p><b>7.5 pts</b> for more than 24 months and less than or equal to 36 months</p> <p><b>10 pts</b> for more than 36 months and less than or equal to 48 months</p> <p><b>15 pts</b> for more than 48 months and less than or equal to 60 months,</p> <p><b>20 pts</b> for more than 60 months</p>	20	S/O
3.3.2.2	<b>Experience in Modeling and Simulation Architectures</b>	<p><b>0 pt</b> for less than 3 months</p> <p><b>1 pt</b> for more than or equal to 3 months and less than or equal to 12 months</p> <p><b>3 pts</b> for more than 12 months and less than or equal to 24 months</p> <p><b>5 pts</b> for more than 24 months</p>	5	S/O
3.3.2.3	<b>Experience in software development : C++ and at least 1 other programming language, as Java, Matlab, Simulink or FORTRAN</b>	<p><b>0 pt</b> for less than 12 months</p> <p><b>5 pts</b> for more than or equal to 12 months and less than or equal to 24 months</p> <p><b>7.5 pts</b> for more than 24 months and less than or equal to 36 months</p> <p><b>10 pts</b> for more than 36 months</p>	10	S/O
3.3.2.4	<p><b>Experience in development of modeling and simulation tools</b></p> <p><i>Total points: score of senior programmer / analyst</i></p>	<p><b>0 pt</b> for less than 3 months</p> <p><b>5 pts</b> for more than or equal to 3 months and less than or equal to 12 months</p> <p><b>7.5 pts</b> for more than 12 months and less than or equal to 24 months</p> <p><b>10 pts</b> for more than 24 months</p>	10	S/O

3.3.2.5	<b>Experience in architecture definition, implementation, and configuration of data farming computer systems.</b>	<b>0 pt</b> for less than 1 month <b>1 pt</b> for more than or equal to 1 month and less than or equal to 2 months <b>3 pts</b> for more than 2 months and less than or equal to 4 months <b>5 pts</b> for more than 4 months	5	S/O
3.4	<b>SCIENTIFIC CATEGORY 4: JUNIOR / INTERMEDIATE LEVEL PROGRAMMER / ANALYST</b>		<b>30</b>	<b>10</b>
3.4.1	<b>Academic training (domain and level of diploma) of the proposed resource.</b>	<b>5 pts:</b> Bachelor in software or computer engineering <b>7.5 pts:</b> Master in software or computer engineering <b>10 pts:</b> Doctorate in software or computer engineering	10	5
3.4.2	<b>Work experience – junior/intermediate level programmer/analyst</b>			
3.4.2.1	<b>Experience in software development : C++ and at least 1 other programming language, as Java, Matlab, Simulink or FORTRAN</b>	<b>0 pt</b> for less than 3 months <b>2.5 pts</b> for more than or equal to 3 months and less than or equal to 6 months <b>5 pts</b> for more than or equal to 6 months and less than or equal to 12 months <b>7.5 pts</b> for more than 12 months and less than or equal to 24 months <b>10 pts</b> for more than 24 months	10	S/O
3.4.2.2	<b>Experience in development of modeling and simulation tools</b>	<b>0 pt</b> for less than 3 months <b>2.5 pts</b> for more than or equal to 3 months and less than or equal to 6 months <b>5.0 pts</b> for more than or equal to 6 months and less than or equal to 12 months <b>7.5 pts</b> for more than 12 months and less than or equal to 24 months <b>10 pts</b> for more than 24 months	10	S/O

N° de l'invitation - Solicitation No.  
W7701-196948/A  
N° de réf. du client - Client Ref. No.  
W7701-196948

N° de la modif - Amd. No.  
001  
File No. - N° du dossier  
QCL-9-42108

Id de l'acheteur - Buyer ID  
QCL051  
N° CCC / CCC No./ N° VME - FMS

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## **ANNEX D – SECURITY REQUIREMENTS CHECK LIST**

### **INSERT :**

**NOTE:** 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. (INSERT

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



# Security Requirement Checklist (SRCL) Supplemental Security Classification Guide

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**This form must be completed in addition to SRCL question 7.b) when multiple release restrictions are therein identified and/or in addition to SRCL question 10.a) when multiple levels of personnel screening are therein identified.**

Part A - Multiple Release Restrictions: Security Classification Guide							
To be completed in addition to SRCL question 7.b) when release restrictions are therein identified. Indicate to which levels of information release restrictions apply. Make note in the chart if a level of information bears multiple restrictions (e.g. a portion of the SECRET information bears the caveat Canadian Eyes Only while the remainder of the SECRET information has no release restrictions.)							
Canadian Information							
Citizenship Restriction	PROTECTED			CLASSIFIED			
	A	B	C	CONFIDENTIAL	SECRET	TOP SECRET	TOP SECRET (SIGINT)
No Release Restrictions	<b>X</b>	<b>X</b>					
Not Releasable							
Restricted to: <b>CA</b>				<b>X</b>	<b>X</b>		
Permanent Residents Included*				<b>X</b>	<b>X</b>		
NATO Information							
Citizenship Restriction	NATO UNCLASSIFIED		NATO RESTRICTED	NATO CONFIDENTIAL	NATO SECRET	COSMIC TOP SECRET	
All NATO Countries							
Restricted to:							
Permanent Residents Included*							
Foreign Information							
Citizenship Restriction	PROTECTED			CLASSIFIED			
	A	B	C	CONFIDENTIAL	SECRET	TOP SECRET	TOP SECRET (SIGINT)
No Release Restrictions	<b>X</b>	<b>X</b>					
Restricted to : <b>CA</b>				<b>X</b>	<b>X</b>		
Permanent Residents Included*				<b>X</b>	<b>X</b>		
COMSEC Information							
Citizenship Restriction	PROTECTED			CLASSIFIED			
	A	B	C	CONFIDENTIAL	SECRET	TOP SECRET	TOP SECRET (SIGINT)
Not Releasable							
Restricted to:							
DND ONLY Embedded Contractor (Access to Controlled Goods)							
Restriction	Yes				NO		
<b>SECRET</b> clearance with CEO applies							

\*When release restrictions are indicated, specify if permanent residents are allowed to be included.

## Security Requirement Checklist (SRCL) Supplemental Security Classification Guide

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Part B - Multiple Levels of Personnel Screening: Security Classification Guide			
To be completed in addition to SRCL question 10.a) when multiple levels of personnel screening are therein identified. Indicate which personnel screening levels are required for which portions of the work/access involved in the contract.			
Level of Personnel Clearance (e.g. Reliability, Secret)	Position / Description/Task	Access to sites and/or information. Levels of Information to be accessed.	Citizenship Restriction (if any)
Reliability Status	Scientific Category 1 ENGINEER – senior level	Access to sites and Protected A, B Information	
Secret	Scientific Category 1 ENGINEER – senior level	Access to sites and Confidential, Secret Information	CA and permanent residents
Reliability Status	Scientific Category 2 ENGINEER – junior/intermediate level	Access to sites and Protected A, B Information	
Secret	Scientific Category 2 ENGINEER – junior/intermediate level	Access to sites and Confidential, Secret Information	CA and permanent residents
Reliability Status	Scientific Category 3 PROGRAMMER/ANALYST – senior level	Access to sites and Protected A, B Information	
Secret	Scientific Category 3 PROGRAMMER/ANALYST – senior level	Access to sites and Confidential, Secret Information	CA and permanent residents
Reliability Status	Scientific Category 4 PROGRAMMER/ANALYST – junior/intermediate level	Access to sites and Protected A, B Information	
Secret	Scientific Category 4 PROGRAMMER/ANALYST – junior/intermediate level	Access to sites and Confidential, Secret Information	CA and permanent residents
Reliability Status	Project Manager	Access to sites and Protected A, B Information	
Secret	Project Manager	Access to sites and Confidential, Secret Information	CA and permanent residents

Part C – Safeguards / Information Technology (IT) Media – 11d = yes
IT security requirements must be specified in a separate technical document and submitted with the SRCL

# Security Requirement Checklist (SRCL) Supplemental Security Classification Guide

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## OTHER SECURITY INTRUCTIONS

On-site work, Contractor will have access to information up to Secret / Controlled Good for on-site work use only (95%). Off-site work (5%) is administrative only at unclassified level.