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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

Electronics, Simulators and Defence Systems Div.
/Division des systèmes électroniques et des systèmes de simulation et de défense
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Title - Sujet DND Modular Firing Range	
Solicitation No. - N° de l'invitation W6399-15GD39/B	Amendment No. - N° modif. 011
Client Reference No. - N° de référence du client W6399-15GD39	Date 2018-06-04
GETS Reference No. - N° de référence de SEAG PW-\$\$QF-101-26652	
File No. - N° de dossier 101qf.W6399-15GD39	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2018-06-15	
Time Zone Fuseau horaire Eastern Daylight Saving Time EDT	
F.O.B. - F.A.B. Specified Herein - Précisé dans les présentes	
Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input checked="" type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Michael Rancourt	Buyer Id - Id de l'acheteur 101qf
Telephone No. - N° de téléphone (819) 420-1734 ()	FAX No. - N° de FAX (819) 956-5650
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: See Herein	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
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This solicitation amendment 11 is to provide clarifications and answer bidder questions. New versions of all updated documents can be downloaded under the "Attachments" section at the bottom of the Tender Notice as file "amend_11_updated_docs.zip". Yellow highlighted text in these updated documents identify where changes have been made as a result of Canada's clarifications, or questions from bidders.

Clarification 1

Some of the solicitation documents contained erroneous references. The following documents have been corrected and are included with this amendment

- Volume 1 Annex C Technical and Management Proposal Requirements and Evaluation Plan for the Modular Indoor Range

Clarification 2

The following update has been made to Volume 1 Annex C:

DELETE Article 2.1 Desirable Criteria Point Valuation in its entirety, and

REPLACE the above-mentioned deleted article with the following:

2.1 Desirable Criteria Point Valuation

Proposals which provide the information required and meet the minimum proof of response will be assigned points based on the features and specifications of the solution offered, as outlined in Table 4 - Desired Criteria Point Valuation. Proposals must meet all requirements of a desirable criterion for points to be awarded. Table 2 - Example Proposal Desirable Criteria Point Valuation Table is provided as an example. Bidders are requested to complete the "Bid Proposal Reference" column. Bidders may complete the "Points Awarded" and "Notes" columns to assist the Crown's evaluation team.

Answers to Questions from Bidders

QUESTION 1

Volume 2 Annex C – Specification, Clause 3.4. Page 6: '45.72 m x 15.00 m (150' x 49.21)'

Question:

Is this correct? if yes. What is allowed for extending the current basement of 36 m x 15 x, as this is much smaller than the maximum allowed Range?

Answer:

Yes, the maximum dimensions are as stated in Volume 2 Annex C Article 3.4 h). As stated in Volume 2 Annex B Article 5.1.2.8, the Contractor must provide the necessary drawings and information to ensure that the footings installed are made to be able to support the range. As stated in Volume 2 Annex B, Appendix 2 Article 3, the Contract will include the option to have the Contractor adjust/install the footings to support the range.

QUESTION 2

Volume 2 Annex C Page 7, Article 3.4.1 a.i.3. "Walls, floors, and ceilings must be lined with ballistic rubber tiles. Wall mounted tiles must be provided with an air gap of at least 13mm between the wall and tiles to enable recovery of rounds at the base of the wall; and"

Volume 2 Annex C Page 11, Article 3.9 "Open Preparation Area / Shooting Gallery d. "Be provided with removable sound insulating and bullet containment ballistic rubber tiles on the floor, walls, and ceiling to protect against ricochets of errant shots, and sound echo's"

Volume 2 Annex C Article 3.17.6.3.1 "Interior Surfaces"

Question:

Is Article 3.4.1 a.i.3 meant to apply to the whole range or are two different designs preferred: One for with tiles and a gap for downrange of the firing line and removable tiles for the open preparation area / shooting gallery?

Currently interior surfaces are to be painted white or off-white. Are we permitted to install tiles that are red or grey?

Answer:

Volume 2 Annex C Article 3.4.1 are not mandatory criteria. In order to be compliant with the each desirable criteria outlined in Article 3.4.1, the requirements outlined for the specific desirable criteria must be met.

The following updates have been made to Volume 2 Annex C:

- 1) INSERT Article 3.2.3 j.
j. Ballistic Rubber tiles must have no spaces in-between adjacent rubber tiles in order to provide complete protection and containment where applicable; and
- 2) INSERT Article 3.2.3 k
k. Ballistic and sound damping tiles must not be bright in colour. Neon colours will not be accepted. Bright orange, yellow, pink or green will not be permitted.
- 3) DELETE Article 3.4.1 a i 3. in its entirety, and
REPLACE the above-mentioned deleted article with the following:
3. Walls, floors, and ceilings between the firing line and the bullet trap, but be lined with removable ballistic rubber tiles. Wall mounted tiles between the firing line and the bullet trap must be provided with an air gap of at least 13mm between the wall an tiles to enable the recovery of rounds at the base of the wall; and
- 4) DELETE Article 3.9 d. in its entirety, and
REPLACE the above-mentioned deleted article with the following:

- d. Be provided with **removable** sound insulating and bullet containment ballistic rubber tiles on the floor, walls, and ceiling to protect against ricochets of errant shots and sound echo's;

5) DELETE Article 3.17.6.3.1 b. in its entirety, and

REPLACE the above-mentioned deleted article with the following

- b. **Have all interior surfaces which are painted,** be painted with flat grey, except the shooting lane walls and all ceilings, **which if painted,** must be painted white, off-white, or light grey.

QUESTION 3

Volume 2 Annex C Page 12: 'Provide a clear and unobstructed view down each firing lane without the aid of additional equipment;' In connection with: Page 20: 'i. The air outlet into the shooting gallery must be at least 4.5m up-range of the firing line' , 'a. Provide clean, conditioned air, in a near-laminar (non-turbulent) flow across the firing line aperture (wall to wall and floor to ceiling across entire firing line)'

Question:

This demand contradicts the demand for an undisturbed laminar airflow, this solution is strongly not advised. To achieve a good partition of the fresh air and thus quality and flow of fresh air in all of the shooting range, also for safety, can we use a controller room with a camera system to monitor the range?

This contradicts the demand for a clear view via the control room to the range. To create this, there cannot be a door and window in the pressure wall at the start of the range.

Answer:

To be technically compliant the offered solution must meet the requirements outlined in request for proposal.

Please see Amendment 008 Question and Answer 41 for further information

QUESTION 4

Volume 2 Annex C Article 3.10.2, Page 14: 'Enable two-way communication between the control room and either:'

Question:

What is the preferred system or which systems are already used by Canadian Military?

Answer:

No preferred system is specified in Volume 2 Annex C.

QUESTION 5

Page 14: 'Windows 2010': The Mainstream support ends on Oct. 13, 2020, that's in about 3 years.

Question:

Is an upgrade part of the proposal, who is responsible for this? Does the range computer have to be forward compatible?

Answer:

Volume 2 Annex B describes the requirements for the documentation to be provided with the range.

Volume 2 Annex C Article 3.10.3 is a current export capability, and is a desirable capability

The following updates have been made to Volume 2 Annex B:

INSERT Page numbering in footers.

QUESTION 6

Page 16: 'Include strobe lighting or flashing coloured lighting in the lanes to provide shooter distraction training;'

Question:

Can this be a separate flashing light, or should this be integrated into the existing lighting?

Answer:

No preferred system is specified in Volume 2 Annex C

To be technically compliant the offered solution must meet the requirements outlined in request for proposal.

QUESTION 7

Page 16: 'National Building Code of Canada 2010 (NBCC 2010).' Page 22: 'national building codes.'

Question:

Who is responsible for requesting and creating the building permit?

Answer:

With the modularity / mobility as required by Volume 2 Annex C Article 3.16, the range is considered equipment for the purposes of this RFP. A building permit is not required for this contract.

To be technically compliant the range must meet the requirements outlined in Volume 2 Annex C Articles 3.12, and 3.17.

QUESTION 8

Page 17: 'MEDECO lock system;'

Question:

Is the use of the MEDECO lock system also necessary for a master key for the emergency services?

Answer:

To be technically compliant the offered solution must meet the requirements outlined in request for proposal.

QUESTION 9

Page 17: 'Have a window at least 0.75 m tall and 0.5 m wide'

Question:

What kind of window has to be used, should this be bullet resistant? Can the material be a polycarbonate?

Answer:

Please see Amendment 003 Question and Answer 7 for further information.

QUESTION 10

Page 17: 'Use push-bars to be opened'

Question:

Should all door handles be ballistic protected? Are the metal part exposed? What is the ballistic requirement?

Answer:

The following updates have been made to Volume 2 Annex C:

- 1) INSERT Article 3.13.4 g i.
i. Push-bars and door hardware in the shooting area must be provided with ballistic protection meeting the requirements of paragraph 3.2.3.
- 2) INSERT Article 3.13.4 h i.
i. Closing mechanisms in the shooting area must be provided with ballistic protection, meeting the requirements of paragraph 3.2.3.

QUESTION 11

Page 19: 'Provide sprinkler piping with seismic bracing and restrains (where applicable) in accordance with NFPA 13.'

Question:

Who is responsible for the sprinkler system in current buildings, and can we consult this party to connect seamless? How is the safety secured for the sprinkler heads in relation to the shooting?

Answer:

The installer of the sprinkler systems in the adjacent building is not under contract with the Crown to provide the information to any third parties.

Please see Amendment 008 Question and Answer 19,

Please see Volume 2 Annex C Article 3.2.3 g.

QUESTION 12

Page 21: 'HEPA filter'

Question:

Are the 3 stages of filtering with HEPA filter only for the recirculation air of the control room, or for all expelled exhaust air?

Answer:

Please see Amendment 008 Question and Answer 31.

QUESTION 13

Volume 2 Annex C Article 3.18.1 (a), Image Screen with Bullet Detection System; i. Infrastructure Requirements: 1. A clearance space: 2550 mm' Q: In page 6 is mentioned: 'All ballistic protection and protrusions for ceiling mounted equipment and components must have a height clearance of 2.3 m unless otherwise specified' This is less, is this correct? And in page 6; 'Have a minimum interior ceiling height of 2.5 m', this is more than the mentioned 2.3. And page 27: 'For the top bar, including light bar and cameras, from all projectiles fired down range. Ballistic protection for the top bar must have at least a 2.2 m height clearance'

Question:

Q: What is correct for ceiling?

Answer:

As specified in Volume 2 Annex C, the range must have the following height clearances:

Article 3.2.3 g - All ballistic protection downrange of the firing line must have a height clearance of 2.2 m unless specified.

Article 3.4 i - A minimum interior ceiling height of 2.2 m.

Article 3.18.1 - A clearance space for the image screen at least 2.25 m tall, 4.285 m wide and 0.9m deep,

As specified in Volume 2 Annex C it is desirable that range has the following height clearances:

Article 3.4.1 - A minimum ballistic and non-ballistic ceiling height, including parallel wall openings of 2.5 m.

The following updates have been made to Volume 2 Annex C:

DELETE Article 3.4.1 e in its entirety, and

REPLACE the above-mentioned deleted article with the following:

- e. Has a minimum interior ballistic and non-ballistic ceiling height clearance, including parallel-lane wall openings, of 2.5 m.

QUESTION 14

Page 26: 'Image Screen with Bullet Detection System'

Question:

Several questions: What is the maximum distance the target detection system can cope with, how close do the cameras need to be from the edge of the projection? Is there 1 or 2 layers of Image screen? Confirm the contractor/bidder is not providing the image screen, right?

Answer:

Each camera requires a maximum 318 mm clearance from the edge of the screen.

Please refer to Amendment 003 Question and Answer 11.

Please refer to Volume 2 Annex C Article 3.18,

The following changes have been made to Volume 2 Annex C

- 1) DELETE Article 3.18 a i. in its entirety; and
REPLACE the above-mentioned deleted article with the following:
 - i. Quantity 1 - Tension mounted **single layer self-healing rubber** image screen, with bullet detection system (2 light bar sections, cameras, and diffusion plates) dimensions: 3650 mm wide, 2187 mm tall, 577 mm deep;
- 2) DELETE Article 3.18.1 a i 1 II) in its entirety, and
REPLACE the above-mentioned deleted article with the following:
 - II Width Clearance **4285** mm;

QUESTION 15

Volume 2 Annex C Article 3.18.1(f), Hostile shoot back remote paint gun (1 total, moved between lanes)'

Question:

Should this be ballistic protected? Is this paintball gun to be mounted (for example on a rail), or mobile?

Answer:

The requirements outlined in Volume 2 Annex C Article 3.18 do not specify ballistic protection for the Hostile Shoot back gun.

The following changes have been made to Volume 2 Annex C:

- DELETE Article 3.18 b iii, in its entirety, and
REPLACE the above-mentioned deleted article with the following:
 - iii. Quantity 1 - **Mobile** hostile shoot back gun with joystick controller.

QUESTION 16

Page 29: '110/120V.'

Question:

Q: supply current: is 400v / 230 v 50 Hz also possible or available?

Answer:

To be technically compliant the offered solution must meet the requirements outlined in request for proposal.

No. To be compatible with the Crown's simulator system, the range must meet the requirements outlined in Volume 2 Annex C.

QUESTION 17

Question:

Tender Documents specify that under the ISS, unscheduled maintenance must take no more than 1 hour. Given the unknown and unspecified nature of this maintenance, how can anyone commit to this?

Answer:

As stated in Volume 3 Annex B article 4.2 a i 1 II the resolution period is an average, and only a requirement during the high-readiness training periods.

The following updates have been made to Volume 3 Annex B:

- 1) DELETE the sentence in Article 4.1 "With the exception of periods of high-readiness training, where DND will operation the range up to 12 hours per day for up to 6 days a week", and

REPLACE the above-mentioned deleted sentence with the following:
"With the exception of periods of high-readiness training, where DND will operate the range up to 10 hours per day for up to 6 days a week,"
- 2) DELETE Article 4.2 a.i.1 in its entirety, and

REPLACE the above-mentioned deleted article with the following:

1. Guaranteeing two scheduled two-week high-readiness training periods with full lane availability, uninterrupted by scheduled maintenance. For a maximum of 100 hours per high-readiness training period and up to 1,000 rds fire per lane per day. During the two-week high-readiness training periods:
- 3) DELETE Article 4.2 a ii 1 II in its entirety, and update paragraph numbering accordingly.
- 4) DELETE Article 4.2.1 in its entirety, and

REPLACE the above-mentioned deleted article with the following:

-
- i. **For 50% of the performance incentive**, not enable the Crown to achieve usage of the range in "loaded weapon" mode operation yearly of:
1. More than 75 hours of range operation yearly with no more than 1 lane not fully operational;
 2. More than 35 hours of range operation yearly with no more than 2 lanes not fully operational;
 3. More than 15 hours of range operation yearly with 3 or 4 lanes not-fully operational; and
 4. Utilize no more than fifteen (15) 24 hour periods of scheduled maintenance each contract year, during which the range will be considered unavailable.
- ii. **For 40% of the performance incentive**, maintain a maximum lead of 1076 ug/sq.m (100 ug/sq.ft) on all surfaces, except in the shooting area between the firing line and the bullet trap; **and**
- 5) INSERT Article 4.2.1 iii.
- iii. For 10% of the performance incentive, achieve, during each of the high-readiness training periods, an average resolution of any unscheduled maintenance and technical support requests of 3 hours.

QUESTION 18

Question:

The stated response times for FSR to be on site is 3 days? How can we have 3 days to have FSR onsite if the requirement is to be completed in less than one hour?

Answer:

Please see Question and Answer 18 above.

QUESTION 19

Question:

In the specifications for range availability, there is a requirement that no more than 100 hours annually see the range with 1 lane not operational. And again for 50 hours with not more than 2 lanes etc.

Are these hours taken from the normal operating business hours, hours in which range use is demanded, such as peak time, or any hours total, including scheduled maintenance during non-business hours.

Answer:

The following updates have been made to Volume 3 Annex B:

- 1) DELETE Article 3.6.1 d iii. in its entirety, and
REPLACE the above-mentioned deleted article with the following:

iii. Specify the hours, including start and end, date and time and total number of hours, **in a loaded weapon mode**, when each lane was not fully operational.
- 2) DELETE Articles 4.2 a.ii.2. in its entirety, and

REPLACE the above-mentioned deleted article with the following:

2. No more than 100 hours of range operation, **in a loaded weapon mode**, yearly with no more than 1 lanes not fully operational;

3) DELETE Article 4.2 a.ii.3. in its entirety, and

REPLACE the above-mentioned deleted article with the following:

3. No more than 50 hours of range operation, **in a loaded weapon mode**, yearly with no more than 2 lanes not fully operational.

4) DELETE Articles 4.2 a.ii.4. in its entirety, and

REPLACE the above-mentioned deleted article with the following:

4. No more than 36 hours of range operation, **in a loaded weapon mode**, yearly with 3 or 4 lanes not fully operational.

5) DELETE Articles 4.2 a.ii.5. in its entirety, and

REPLACE the above-mentioned deleted article with the following:

5. The range will be considered fully non-operational if more than 4 lanes are not fully operational. **The Crown may continue to use the remaining lanes to unload weapons, without incurring hourly charges;**

QUESTION 20

Question:

Specifications require lead surface testing every 15 days. Is this really necessary? Most facilities do it annually.

Answer:

The following updates have been made to Volume 3 Annex B:

1) DELETE Article 4.2 e in its entirety, and update paragraph numbering accordingly.

2) INSERT Article 3.3.1

3.3.1 Surface Lead Testing

The Contractor must make available as and when required, lead contamination testing services. Testing must:

- a. Be performed by an independent testing body;
- b. Be performed in accordance with NEHC-TM6290.99-10;
- c. Include surface testing as requested;
- d. Include exhaust air testing as requested; and
- e. Provide a report within 30 days of test completion, in accordance with paragraph 3.6.5 Lead test report.

3.3.1.1 Potential testing schedule

The Crown intends to request testing over the first 2 years of the in-service support contract as follows:

- a. Daily testing, for a period of 1 month or 1-2 cleaning cycles, dependent on the length of a cleaning cycle;
- b. 12 test approximately once every 30 days; and
- c. 4 tests approximately once every 90 days.

3) INSERT Article 3.6.5

3.6.5 Lead Test Report.

Lead test reports must include the following:

- a. Date(s) and time(s) samples were taken;
- b. Testing body or organization;
- c. Locations where samples were taken, including a drawing of the range identifying the sample locations;
- d. Sampling and testing method;
- e. Individual sample results; and
- f. For reports covering multiple sampling dates, a line or bar graph showing the results over time for each sample location, and table comparing the results over time including the change between each sample time.

4) DELETE Article 3.6.1 e in its entirety, and update paragraph numbering accordingly.

QUESTION 21

Question:

Specifications for preventative maintenance require the contractor to provide replacement parts for regularly scheduled maintenance. If non-consumable defects are observed during inspections, will the contractor be able to invoice the Crown for those replacement parts, if not covered under warranty?

Answer:

It is expected that due to the previous experience and knowledge gained by the Contractor that the provided maintenance schedules will account for all parts replacements as required.

The following updates have been made to Volume 2 Acquisition Resulting Contract:

1) DELETE Article 4.1 General Conditions in its entirety, and

REPLACE the above-mentioned deleted paragraph with the following:

4.1 General Conditions

- a) 1031-2 (2012-07-16) Contract Cost Principles apply to and form part of the Contract.
- b) 2030 (2016-04-04), General Conditions - Higher Complexity - Goods, apply to and form part of the Contract.

Article 22, paragraph 1 of 2030 (2016-04-04), General Conditions - Higher Complexity - Goods, is amended as follows:

2030 22 (2014-09-25) Warranty

1. Despite inspection and acceptance of the Work by or on behalf of Canada and without restricting any other provision of the Contract or any condition, warranty or provision imposed by law, the Contractor warrants that, for **36 months** (or any other period stated in the Contract), the Work will be free from all defects in design, material or workmanship, and will conform to the requirements of the Contract. The warranty period begins on the date of delivery, or if acceptance takes place at a later date, the date of acceptance. With respect to Government Property not supplied by the Contractor, the Contractor's warranty will extend only to its proper incorporation into the Work

The following updates have been made to Volume 2 Annex B:

- 1) INSERT Article 1.3

"Part" is defined as individual whole pieces of the range which cannot be sub-divided and require replacement when damaged or non-functional;

"Component" is defined as individual pieces of the range which can be sub-divided in constituent parts and are repairable or replaceable as a unit;

"Consumable" is defined as a part or component intended to be used up or "consumed" through operation and use of the range, requiring replacement;
- 2) DELETE Article 5.1.2.3 b in its entirety, and
REPLACE the above-mentioned deleted article with the following:
 - b. Instructions on care, cleaning, and **basic** maintenance of the range
- 3) DELETE Article 5.1.2.3 f. in its entirety, and
REPLACE the above-mentioned deleted article with the following:
 - f. List of the primarily held or regularly replaced **parts and** components with part numbers, National Stock Numbers, **and replacement schedule;**
- 4) DELETE Article 5.1.2.4 c in its entirety, and
REPLACE the above-mentioned deleted article with the following:
 - c. Preventative maintenance schedule based on # rounds fired (e.g. every 10,000 rounds), hours of operation, or regular time schedule (e.g. once a month) as appropriate:
 - i. **The preventative maintenance schedule must include a supporting table listing the consumables to be replaced and the replacement schedule.**
- 5) DELETE Article 5.1.2.4 e in its entirety, and
REPLACE the above-mentioned deleted article with the following:

- e. Regular maintenance schedule based on # rounds fired (e.g. every 10,000 rounds), hours of operation, or regular time schedule (e.g. once a month) as appropriate).
 - i. The regular maintenance schedule must include a supporting table listing the consumables to be replaced, and the replacement schedule.
- 6) DELETE Article 5.1.2.4 m in its entirety, and
REPLACE the above-mentioned deleted article with the following:
- m. Instructions for converting the range heating source from natural gas to propane and the reverse, if available.
- 7) DELETE Article 5.1.2.4 o in its entirety, and
REPLACE the above-mentioned deleted article with the following:
- o. Complete instructions on the care, cleaning, and maintenance of each component of the range;

The following updates have been made to Volume 3 Annex B:

- 1) INSERT Article 1.3
- "Part" is defined as individual whole pieces of the range which cannot be sub-divided and require replacement when damaged or non-functional;
- "Component" is defined as individual pieces of the range which can be sub-divided in constituent parts and are repairable or replaceable as a unit;
- "Consumable" is defined as a part or component intended to be used up or "consumed" through operation and use of the range, requiring replacement;
- 2) INSERT Article 3.6.1 g.
- g. Include a list of all parts and components replaced, including part name and number and associated maintenance activity brief description, ticket number, or log number.
- 3) DELETE Article 4.2 g in its entirety, and
REPLACE the above-mentioned deleted article with the following:
- g. Provide all replacement consumables as required to perform all regular and scheduled maintenance outlined in the range documentation, at no additional cost to the Crown.
- 4) DELETE Article 4.2 h.
- h. Perform the annual testing of the air flow with targets, tables, and backdrops present for normal use. If testing demonstrates that the air flow no longer meets the required standard, corrective maintenance action, including replacement of components and parts, must be performed at no additional cost to the Crown. Testing must be immediately repeated after corrective action, and further corrective action taken until the range meets the required standard. At a

minimum testing must be conducted at the firing line, in the preparation area and at least 500 cm (196 in) downrange of the firing line, in the four shooter breathing zones;

5) INSERT Article 4.2 i. i.

- i. Non-consumable parts and components discovered with defects, outside the contract or part warranty period will be procured as per paragraph 3.4 Spare Parts. The cost for parts and components not initially included on the preventative or regular maintenance schedules, but added after range delivery will be credited to the Crown.

6) INSERT Article 4.2 s

- s. Add parts and components being replaced or maintenance performed on a regular schedule, which were not part of the initially provided regular or preventative maintenance schedules, consumables lists or regular replaced parts and components lists to the appropriate lists, tables, instructions, and schedules as required by the Crown.
 - i. Updated manuals must be provided in electronic format to the TA within 30 days of an update. Updated hardcopy inserts within insert instructions or manual replacements must be provided to the TA and range site within 30 days of an update

QUESTION 22

Question:

In the last amendment, the ammunition requirements were updated to include non-lead ammunition. I understand that the Crown intends to use this ammunition in their range, however due to the wide variety of non-lead ammunition (Steel Core, Copper Frangible, Bismuth, etc.), the effects of which can have a significant and deleterious effect on various range systems, as well as the relatively new and largely unstudied nature of these different ammunition types, any range manufacturer will have significant difficulty in correctly estimating the life cycle costs of range components. Will the Crown consider removing this ammunition requirement from the list of mandatory ammunition types? Or alternatively, will the Crown accept an assertion that unanticipated maintenance requirements caused by the use of unknown lead-free ammunitions do not constitute reasonable wear and tear?

Answer:

Due to the reduced health and environmental risks, it is the intent of the Crown to investigate and potentially switch to lead-free ammunition for use in the range.

The following updates have been made to Volume 2 Annex C:

- 1) DELETE Article 3.2.1 in it's entirety, and
REPLACE the above-mentioned deleted article with the following:

3.2.1 Lead-Free Ammunition

It is desirable that the range is compatible with lead-free ammunition with ballistic properties similar to the current lead-based NATO standard ammunition as specified in paragraph 3.2 - Ballistic Requirements without degradation in performance or increase in maintenance cost.

The following updates have been made to Volume 1 Annex C:

- 1) INSERT Table 4 Requirement "Vol 2 Annex C - Para 3.2.1"
Proof of Response "The bid proposal includes:
a. A list of the lead-free ammunition (including manufacturer, make and model) the range will be compatible with or without an increase in maintenance costs; and
b. Specifications and brochures for each listed ammunition, including the ammunition ballistic properties."
Value "40 pts"

QUESTION 23

Question:

In the pricing schedules for the ISS contract, there is a cost per round that will be charged to the Crown. The acquisition contract states as desirable, not mandatory, that the range system provide a means of tracking total rounds fired to be used for reporting purposes. How is the number of the rounds fired to be tracked if such a system is not provided?

Can the successfully bidder be provided range usage summaries from the Canadian Forces Range Information System (CFRIS), including information on calibre, type and quantity of ammunition fired as a substitute for attempting to manually track total ammunition consumption?

Answer:

Regardless of whether or not the range is capable of counting and tracking the number of rounds fired, as specified by the desirable requirement in Volume 2 Annex C Article 3.4.1 d. It will be standard policy for the Range Safety Officer to track the number of rounds fired in each lane of the range, every day in order to accurately account for ammunition consumed in the Canadian Forces Supply System. A monthly summary, including daily breakdown, of rounds fired taken from the Range Safety Officer's log will be provided to the Contractor upon request.

The following updates have been made to Volume 2 Annex C:

- 1) DELETE Article 3.4.1 d in its entirety, and
REPLACE the above-mentioned deleted article with the following:
- d. Is provided with a shot counter to count the number of rounds. The shot counter must:
- i. Relay the shot count to the range control system to be recorded by the range control system;
 - ii. Be accurate to within 0.1 % for 1000 rounds fired;
 - iii. Not require any effort on the part of the shooters;
 - iv. Not require any additional components or accessories to be mounted to the weapons being utilized, the shooters, or the operators; and
 - v. Be fully compatible with the ammunition and fire rates specified in paragraph 3.2 Ballistic Requirements.

The following updates have been made to Volume 1 Annex C:

- 1) DELETE Proof of Response for Requirement "Volume 2 Annex C - Para 3.4.1 d)" in its entirety, and

REPLACE the above-mentioned deleted article with the following:

The proposal:

- a. Demonstrates the range is provided with a shot counter;
- b. Specifies the accuracy of the shot counter;
- c. Describes the components of the shot counter;
- d. Includes a test report verifying the accuracy of the shot counter and compatibility with the ammunition and fire rates specified.

The following updates have been made to Volume 3 Annex B:

1) DELETE Article 3.6.1 a in its entirety, and

REPLACE the above-mentioned deleted article with the following:

a) Be submitted within 10 business days of the end of the calendar month the report is for;

2) INSERT Article 3.8:

3.8 Round Count

The Crown will provide to the Contractor, within 5 business days of the end of the month, the Range Safety Officers round count summary, including at least number of rounds fired per ammunition type for the month and approximate lane usage.

3.8.1 Round Count Accuracy Verification.

If the range is capable of counting the number of rounds, the Crown will compare the range round count and RSO round count. In the event of a deviation of more than 5% between the two counts, the Crown will verify the maximum possible number of rounds that could have been fired in the month, by reviewing the current amount of locally stored ammunition at the beginning and end of the month, and the amount of ammunition supplied from the local depot;

- a. If the round count is higher than the maximum possible number of rounds fired in the month. The Contractor will be required repair the round counter and verify accuracy before the range round count is accepted by the Crown. The round count from the RSO log book will be utilized as the number of rounds fired in that month; and
- b. If the round count is less than the maximum possible number of rounds that could have been fired in the month, the Contractor may provide a witness (at no extra cost to the Crown), as the accuracy of the range round counter is verified over the course of a week, in accordance with paragraph 3.8.1 Accuracy Verification Process.

3.8.1.1 Accuracy Verification Process

The range round counter accuracy will be verified as follows:

- a. A set lot of ammunition, of at least 3,000 rounds, and no more than 10,000 rounds, will be set aside and quarantined for evaluation purposes;
- b. The number of rounds in the quarantined lot will be verified;
- c. The quarantined lot will be brought in to the range and fired in the range. All lanes will be utilized;

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- d. The number of rounds counted by the range will be compared to the quarantine count; and
 - e. If the round counter shows more than 0.1% difference to the number of rounds in the quarantined lot, the round counter will be considered non-functional and the round count from the RSO log book will be utilized as the number of rounds fired in that month.

QUESTION 24

Question:

If the hourly and per round usage fees are not intended to be used routinely, we must forecast maintenance costs based on the stated assumptions in section 4. What is the process to be used if actual usage does not reflect those assumptions?

Answer:

Based on the set per-hour and per round usage fees, if the usage of the range increases or decreases between months (either more rounds are discharged or the range hourly usage is higher), the total amount paid for the month (not the rate) will also adjust accordingly.

QUESTION 25

Question:

Will the ISS contract be bound by a maximum annual ceiling price?

Answer:

No.

END