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**SOLICITATION AMENDMENT**  
**MODIFICATION DE L'INVITATION**

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

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

**Comments - Commentaires**

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**Issuing Office - Bureau de distribution**  
Electronics, Simulators and Defence Systems Div.  
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Gatineau  
Québec  
K1A 0S5

<b>Title - Sujet</b> Naval Remote Weapon Station (NRWS)	
<b>Solicitation No. - N° de l'invitation</b> W8472-125389/A	<b>Amendment No. - N° modif.</b> 003
<b>Client Reference No. - N° de référence du client</b> W8472-125389	<b>Date</b> 2012-04-05
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$QF-101-21857	
<b>File No. - N° de dossier</b> 101qf.W8472-125389	<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 2012-05-11</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Daylight Saving Time EDT
<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> Michael Rancourt	<b>Buyer Id - Id de l'acheteur</b> 101qf
<b>Telephone No. - N° de téléphone</b> (819) 956-3930 ( )	<b>FAX No. - N° de FAX</b> (819) 956-5650
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

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<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/</b> <b>de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

## NRWS Industry Day Questions

- 1) **Question:** **Are the Kingston class ships included in this requirement?**  
**Answer:** No, at the moment, the current scope does not include KINGSTON Class ships, but it is possible they may be added in the future.
- 2) **Question:** **The NRWS will fire current DND weapons, but will the NRWS be required to fire future weapons that DND may acquire?**  
**Answer:** No, Not at this time.
- 3) **Question:** **Does the NRWS require the ability to be fired manually by an operator?**  
**Answer:** At this time yes.
- 4) **Question:** **Will the contractor be responsible for the full installation and integration of the NRWS?**  
**Answer:** Canada envisions that the contractor would be responsible for everything up to the clean up of the installation sites.
- 5) **Question:** **Is the requirement to engage multiple targets with multiple mounts?**  
**Answer:** At this time, Canada does not foresee a requirement for multiple mounts to be synchronized such that they can be operated simultaneously from a single console. While we require that operators have the flexibility to select any mount from any of the consoles, they would only ever control operation of multiple mounts at the same time will  
 installed  
 one at a time. The  
 require an operator for each  
 mount in use.
- 6) **Question:** **Will the Contractor be responsible for the JSS (Joint Support Ship Project) NWRS installations and integration?**  
**Answer:** No, the current expectation is that any JSS NRWS systems purchased under this  
 integration.  
 requirement would be straight quantities with no installation and
- 7) **Question:** **Where do you expect the operator consoles to be located on the ships?**  
**Answer:** At this point, the Bridge on each ship is the intended location.

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- 8) **Question:** **Will HERO (Hazards of Electromagnetic Radiation to Ordnance) standards apply to this requirement?**
- Answer: Yes, HERO system qualification will apply to this requirement should a future RFP be released.
- 9) **Question:** **Is this requirement considered part of the FELEX project (Frigate Life Extension)?**
- Answer: No, this is a separate requirement and is not affiliated with the FELEX project.
- 10) **Question:** **How will DND Evaluate accuracy when choosing a system?**
- Answer: The evaluation procedures have not been determined for this requirement. It is reasonable to expect a requirement of this scope would consist of a combination of mandatory and point rated criteria, and test the Navy's three main areas of focus: Accuracy, Survivability, and Reliability.
- 11) **Question:** **What are the language requirements for system documentation?**
- Answer: Canada has two (2) official languages, English and French. The expectation would be that all documentation (including labels) would be provided in both official languages. It can be assumed that software would be expected in English only, although this has not been finalized.
- 12) **Question:** **Please define Hot Barrel?**
- Answer: Hot Barrel is defined as a continuous fire burst of approximately one hundred (100) to one hundred-fifty (150) rounds in less than 1 minute.
- 13) **Question:** **Can the Crown provide us with values for meantime between failures and mean time between critical failures?**
- Answer: At this time, these values have not been defined. We would, however, appreciate it if industry could provide these numbers for feedback.
- 14) **Question:** **How fast should the NRWS system initialize on start up?**
- Answer: Expectation at this point is an initialization of one (1) minute or less. In addition, Lock and Standby modes would be desirable.
- 15) **Question:** **How many predefined targets do you want to store?**

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W8472-125389/A

Amd. No. - N° de la modif.

003

Buyer ID - Id de l'acheteur

101qf

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

W8472-125389

File No. - N° du dossier

101qfW8472-125389

CCC No./N° CCC - FMS No/ N° VME

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what      Answer:      At this time, these values have not been defined. We are interested to know  
the various systems can offer.

**16) Question: Can you clarify your simulation requirements?**

Answer: Canada envisions the ability to train operators directly from the console (e.g., simulation mode integrated into each console). Canada is interested to see what other simulation concepts industry can offer. We would appreciate feedback.

**17) Question: What will the In Service Support (ISS) requirements look like?**

Answer: A draft ILS package (Annex B) was provided in the LOI document which can be found in the NRWS MERX website posting. In addition, DND has introduced new ISS framework guidelines and the Project Management Team (PMT) is still determining how they will apply to the NRWS requirement. For the purpose of exercise, cost wise, we are looking for a five (5) year support window from Contract award.

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**18) Question: Is the NRWS ISS requirement the same as the Close Combat Support Vehicle requirement?**

Answer: At this point we do not anticipate the ISS requirement be the same as the CCV and the TAPV projects. But with the new ISS frame work guidelines; we can anticipate the ISS requirements to be something in between what is requested from the Major Project and the way we currently support systems that are in service. For the purpose of this LOI, it is asked that industry provide comprehensive costing for the ISS costs for the first five years of the in service portion of the life cycle of the system.

**19) Question: In the Letter of Interest documents (LOI) you mentioned target illumination. Is this a requirement?**

Answer: At this time, target illumination is not part of this requirement. We are interested to know what the various systems can offer.

**20) Questions: Will this requirement be subject to Industrial Regional Benefits (IRB)?**

Answer: At this stage of the project, Industry Canada has not been engaged with this requirement. However, should a follow-on RFP be released, it is anticipated that there would be IRB requirements.

**21) Question: In your draft LOI documents, is Forward Looking Infrared Red (FLIR) the same as the night vision camera?**

Answer: Yes, it is the same. We acknowledge that today's night vision cameras are not necessarily the same as a FLIR Camera. In the future, we will use the term Night Vision Camera.

**22) Question: Does the optics package need to be co-actuated with each NRWS mount?**

Answer: For the purpose of providing tracking and fire control functions for the weapon, Canada requires that the optics be integrated to the mount. Proposals for an independent surveillance capability in support of NRWS operations are of interest and welcome.

**23) Question: Are you sure your optics specifications are correct?**

Answer: Yes, the optics specifications are correct in the SOW. Please cost accordingly.

**24) Question: Will the NRWS be operational in the North Atlantic?**

Answer: Yes, the NRWS would be required to operate in the north Atlantic, hence the emphasis on "survivability."

**25) Question: Please define grade one (1) armour in your draft technical documents?**

Answer: At this time, Canada does not envision a requirement for armour on the NRWS.

**26) Question: What is the primary threat environment for the NRWS?**

Answer: Please refer to the Letter of Interest (LOI) posted on the MERX website. The threat environment has been defined.

**27) Question: Will you release the data sheets for the weapons the NRWS will operate?**

Answer: Please refer to amendment 3 of the NRWS LOI MERX posting for instructions on ordering drawings.

**28) Question: Is an ammunition capacity of four hundred (400) rounds of 12.7 link, or six hundred (600) rounds of 7.62 links, acceptable?**

Answer: For the purpose of this LOI, both are acceptable.

**29) Question: Is a software solution to limit firing arcs acceptable?**

Answer: Canada does not expect that software stops alone would be acceptable. At this time, Canada envisions that some form of physical hard stop would be required, although a combined software/hard stop solution may be acceptable. For example, software could be the primary mechanism to avoid the shock continual impact against hard stops with the hard stops acting as of back-ups.

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- 30) Question: Define Level 1 shock.**
- Answer: Level 1 shock refers to a Canadian Specification for survivability of equipment which is based on and very similar to MIL-S-901. For the purpose of this LOI, please refer to Military Standard MIL-S-901.
- 31) Question: Who will be responsible for costs related to license fees and/or patent fees associated with the NRWS?**
- Answer: Canada's expectation would be that neither the Contractor nor Canada would infringe any third party's intellectual property rights in performing or using the Work, and that Canada would have no obligation to pay royalties of any kind to anyone in connection with the Work.
- 32) Question: Is it possible to release Industrial Regional Benefit (IRB) requirements earlier in the process?**
- Answer: IRB requirements (if applicable) would be released with a potential future RFP.
- 33) Question: Is your requirement for a cooled or non-cooled night vision camera?**
- Answer: Current specifications are as defined in the LOI draft technical documents.
- 34) Question: Will a command console be required?**
- Answer: A command console is not required.
- 35) Question: Is weight an issue for the NRWS?**
- Answer: At this time, Canada anticipates that this will not be an issue.
- 36) Question: Will ship scheduling be an issue during NRWS installation?**
- Answer: For the purposes of this LOI exercise, this will not be a factor.
- 37) Question: Are the Hangar wings and Bridge top mezzanine potential NRWS installation sites?**
- Answer: These sites are undesirable to Canada, but are still potential system locations. proposals for these areas must take into consideration interference with, or by, current fitted equipment. Please see Question 46.
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- 38) Question: Is the expectation that the NRWS will be installed in the current Pintle mount locations?**
- Answer: For the purpose of this LOI, the optimal NRWS locations will be proposed by industry to achieve the coverage requested in the LOI.
- 39) Question: Will you release the ship drawings to assist Industry?**
- Answer: Please refer to amendment 3 of the NRWS LOI MERX posting for instructions on ordering drawings.
- 40) Question: Will the FELEX project affect the available console space on the bridge?**
- Answer: At this time, Canada anticipates that the FELEX project will not affect the available space on the Bridge.
- 41) Question: Will existing equipment installed on the ships be relocated to make room for the NRWS and NRWS console?**
- Answer: The preference would be to minimize the relocation of existing systems as much as possible.
- 42) Question: What is your estimation for the maximum length of the cables between the turret and the wheel house (Bridge)?**
- Answer: The available ship drawings should be sufficient to aid in estimating the required cable lengths. Please refer to amendment 3 of the NRWS LOI MERX posting for instructions on ordering drawings.
- 43) Question: What power supplies are available on the different ships?**
- Answer: All ships can provide 24VDC, 120VAC, 250 VAC, 450 VAC, 60Hz and 400Hz.
- 44) Question: What type of 40 mm is required? We could not track the type by the NSN number (1010-20-006-0904)?**
- Answer: NCage :D2330 (Heckler & Koch GmbH) P/N 210643.



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- 45) Question:** Can you provide the information on the routing places for cables and which tunnel is for which type of cable (electrical, data etc.)?
- Answer:** The available ship drawings should provide sufficient information regarding cables. For estimation purposes, please note that most cable runs are through open passageways. Please refer to amendment 3 of the NRWS LOI MERX posting for instructions on ordering drawings.
- 46) Question:** Could you clarify the red/green zones?
- Answer:** Red and green zones have not been formally established. The hangar top is currently the only location that is not desirable to DND.