



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

**Bid Receiving - PWGSC / Réception des soumissions
- TPSGC**

11 Laurier St. / 11, rue Laurier

Place du Portage, Phase III

Core 0B2 / Noyau 0B2

Gatineau

Québec

K1A 0S5

Bid Fax: (819) 997-9776

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

**Marine Machinery and Services / Machineries et
services maritimes**

11 Laurier St. / 11, rue Laurier

6C2, Place du Portage

Gatineau

Québec

K1A 0S5

Title - Sujet CONTAINERIZED DIVING SYS. CONTAINER	
Solicitation No. - N° de l'invitation W8482-157782/A	Amendment No. - N° modif. 002
Client Reference No. - N° de référence du client W8482-157782	Date 2016-07-22
GETS Reference No. - N° de référence de SEAG PW-\$\$ML-044-25901	
File No. - N° de dossier 044ml.W8482-157782	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2016-08-31	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: Aussant, Marc	Buyer Id - Id de l'acheteur 044ml
Telephone No. - N° de téléphone (819) 420-2906 ()	FAX No. - N° de FAX (613) 889-4254
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

Instructions: See Herein

Instructions: Voir aux présentes

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

Solicitation No. - N° de l'invitation
W8482-157782/A
Client Ref. No. - N° de réf. du client
W8482-157782

Amd. No. - N° de la modif.
2
File No. - N° du dossier
044ml. W8483-157782

Buyer ID - Id de l'acheteur
044ml
CCC No./N° CCC - FMS No./N° VME

Please note that this is not a solicitation. No Contract will result from this Letter of Interest and Pre-Qualification.

**AMENDMENT NO. 2 TO THE
Letter of Interest (LOI) and Invitation to Qualify (ITQ)**

For the

**Removal and Reinstallation of the Containerized Diving Systems (CDS) into new
ISO containers**

And the

**Sixty (60) month Preventive Maintenance Overhaul Routine (CDSA-60M) of the
Fleet Diving Unit (Atlantic) FDU (A) CDS**

For the

Department of National Defence (DND)

Solicitation No. - N° de l'invitation
W8482-157782/A
Client Ref. No. - N° de réf. du client
W8482-157782

Amd. No. - N° de la modif.
2
File No. - N° du dossier
044ml. W8483-157782

Buyer ID - Id de l'acheteur
044ml
CCC No./N° CCC - FMS No./N° VME

This LOI amendment no. 2 is raised to;

- 1 Publish the Questions and Answers (Q&A) Document Rev 2 as of July 21, 2016.
- 2 Publish examples of DID's

END OF LOI AMENDMENT NO 2

**REMOVAL AND REINSTALLATION OF THE CDS INTO NEW ISO CONTAINERS and 60 MONTH PREVENTIVE
MAINTENANCE ROUTINE OF THE FDU (A)**

**RETRAIT DES SYSTÈMES DE PLONGÉE CONTENEURISÉS, LEUR RÉINSTALLATION DANS DE NOUVEAUX
CONTENEURS ISO et ROUTINE DE MAINTENANCE PRÉVENTIVE DE 60 MOIS DU SYSTÈME DE PLONGÉE
CONTENEURISÉ DE L'UNITÉ DE PLONGÉE DE LA FLOTTE (ATLANTIQUE)**

QUESTIONS & ANSWERS/QUESTIONS ET RÉPONSES

LOI / LI : W8482-15782/A

Q#	Ref	Date Reçu / Date Rec'd	Question / Question	Réponse / Answer	Date répondu / Replied date
1	LOI / LI	2016-07-11	<p>The cover page of this solicitation indicates that the closing date is on August 31, 2016 at 2:00pm EST. On page 5 of 5 of the LOI, Para 5 states that the closing date is August 16, 2016 at 2:00pm EST. Please indicate which one is correct.</p> <p>À la page couverture de la Lettre d'Intérêt il est indiqué que l'invitation prend fin le 31 août 2016 à 2 :00 pm HAE. À la page 5 il est indiqué que l'invitation prend fin le 16 août 2016 à 2 :00 HAE. SVP avisez quelle date est la bonne.</p>	<p>The correct closing date is as per the cover page of the solicitation i.e. August 31, 2016 at 2:00pm EST. This change will be part of the next amendment to the LOI.</p> <p>La date de fin de l'invitation valide est celle de la page couverture de la Lettre d'Intérêt i.e. le 31 août 2016 à 2 :00 pm HAE. Ce changement fera partie de la prochaine modification de la LI.</p>	2016-07-12
2	LOI Page 3 of 5, Para 2 (b) LI Page 3 de 5, Para 2 (b)	2016-07-11	<p>According to ASME, companies are not certified to ASME PVHO-1 but use this standard as a guideline which provides the requirements for all aspects of design, fabrication, testing and pressure resistance of Pressure Vessels for Human Occupancy. Please remove the requirement for certification.</p> <p>Selon ASME, les entrepreneurs ne sont pas homologues conformément à ASME PVHO-1 qui est un guide énumérant les exigences relatives à tous les aspects de la conception, fabrication, essais, et résistance des vaisseaux pressurisés pour destinés à l'occupation humaine. SVP enlever cette exigence d'homologation.</p>	<p>The certification requirement is removed and is replace by the following: <i>"The Suppliers must demonstrate that they are capable of meeting the requirements of the Safety Standard for Pressure Vessels for Human Occupancy (ASME PVHO-1)"</i>. This change will be part of the next amendment to the LOI.</p> <p>L'exigence d'homologation est supprimé et remplacé par ce qui suit : <i>"Les fournisseurs doivent démontrer qu'ils ont la capacité de se conformer aux exigences en matière de standard de sécurité applicable aux vaisseaux pressurisés destinés à l'occupation humaine (ASME PVHO-1)"</i>. Ce changement fera partie de la prochaine modification de la LI</p>	2016-07-12

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LOI / LI : W8482-15782/A

Q#	Ref	Date Reçu / Date Rec'd	Question / Question	Réponse / Answer	Date répondu / Replied date
3	LOI/LI	2016-07-19	The closing date is inconsistent for the subject solicitation as illustrated on the abstract, the solicitation cover page and "point 5, which is located on page 5" of the solicitation document. There are references to the closing date as August 31, 2016 and August 16, 2016.	See answer no. 1	2016-07-19
			Please confirm the official closing date. La date de fin de de la Lettre d'Intérêt en référence est inconsistante comme le montre les extraits de la page couverture et l'article 5 de la page 5. Les dates sont indiquées comme étant respectivement le 31 août 2016 et le 16 août 2016. SVP confirmer la date valide de fin de la Lettre d'intérêt.	Voir réponse no. 1	

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Q#	Ref	Date Reçu / Date Rec'd	Question / Question	Réponse / Answer	Date répondu / Replied date
4F	LI page 3 article 2, (a) Expérience i) et ii))	2016-07-20	<p>Pouvons-nous excéder au-delà de l'exigence de 5 ans pour soit?</p> <p>(a) Expérience</p> <p> i) Les fournisseurs doivent avoir construit au moins un nouveau conteneur ISO ou modifié au moins un conteneur commercial ISO durant les cinq (5) dernières années.</p> <p> ii) Les fournisseurs doivent avoir construit ou modifié et livré avec succès au moins un (1) système de complexité similaire à celui du SPC au cours des 5 dernières années. Un système de complexité similaire doit être un système qui soit entrepose, compresse, détend, mélange ou distribue des gaz respiratoires pour consommation humaine.</p>	Non	2016-07-20
5E	LOI Annex A	2016-07-20	Please provide copies of the referenced DID's (ex. DID-AT-01, DID-EN-04, etc) so that the bidder can assess the desired level of detail for these items	Canada did not have the intention to publish the DID's at the LOI stage as these documents are required at the RFP stage and therefore they still in development and are not translated yet. Canada will publish them through the next LOI amendment as is and as example only.	2016-07-21

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5F	LI Annexe A	2016-07-20	SVP fournir des copies des DPL (ex. DID-AT-01, DID-EN-04, etc) identifiés au document de façon à ce que le soumissionnaire puisse évaluer le niveau de détail requis par ces documents	Le Canada n'avait pas l'intention de publier les DPL à l'étape de la LI puisque ces documents sont requis à l'étape de la demande de propositions et que par conséquent, ils sont encore en développement et ne sont pas traduits. Le Canada les publiera, tel quel et à titre d'exemple seulement, via la prochaine modification de la LI.	2016-07-21
6	LOI Annex A / LI Annexe A	2016-07-20	Is the bidder required to conduct the tests outlined in Table 7 of the SOW as part of the FAT? Est-ce que le soumissionnaire est requis d'effectuer les essais décrits au tableau 7 de l'ÉDT comme faisant partie des essais d'acceptation en usine?	Affirmative, the contractor must conduct the test outlined in Table 7. Environmental Requirements detailed in Table 7 are part of the FAT found in Table 9, FAT certification requirements. Affirmatif, l'entrepreneur doit effectuer les essais décrits au tableau 7. Les Exigences Environnementales détaillées au tableau 7 font parties des Essais d'Acceptation en Usine décrits dans le tableau 9, Exigences relatives à la certification des essais d'acceptation en usine.	2016-07-21

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7	LOI Annex A / LI Annexe A	2016-07-20	<p>Regarding paragraph 5.6.3 of Annex A, please confirm that Canada's intent with the statement regarding the removal of the Diving System with a "minimum of disturbance on the existing piping layout" is of the contractor to remove the Diving System and reinstall it in the new container in as close to the original configuration as practical</p> <p>Concernant l'alinéa 5.6.3 de l'annexe A, veuillez confirmer que l'intention du Canada avec la déclaration concernant l'enlèvement du système de plongée avec "un minimum de perturbation sur la configuration de la tuyauterie" signifie que l'entrepreneur devra enlever le système de plongée et le réinstaller dans le nouveau conteneur en respectant, dans la mesure du possible, sa configuration initiale.</p>	<p>The contractor is to remove the diving systems and reinstall it in the new ISO container in as close as the original configuration as practical with minimum of disturbance on the existing piping layout where applicable. The RCC must remain in the same location as practicable in order to conduct Transfer Under Pressure (TUP) with two man portable RCC</p> <p>L'entrepreneur enlèvera les systèmes de plongée et les réinstallera dans le nouveau conteneur ISO aussi près que possible de leurs configurations d'origine avec un minimum de perturbation sur la configuration de la tuyauterie. Le caisson hyperbare doit demeurer au même endroit dans la mesure du possible afin de permettre la manœuvre de Transfert Sous Pression (TSP) avec le caisson hyperbare de transport pour 2 hommes.</p>	2016-07-21

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8	LOI Annex A / LI Annexe A	2016-07-20	<p>Regarding paragraph 7.5.1 of Annex A, please confirm that it is Canada's intent to have access to the engineering drawings only and not to the calculations, FEA reports, solid CAD models, etc</p> <p>Concernant l'alinéa 7.5.1 de l'annexe A, veuillez confirmer que le Canada à l'intention d'avoir accès aux dessins techniques seulement et non aux calculs, aux rapports d'analyse par la méthode des éléments finis, aux modules solides découlant des DAO etc.</p>	<p>DND requires Level II, Production Prototype and limited Design Engineering drawings. These Engineering drawings shall include as applicable, parts lists, detail and assembly drawings, interface control data, diagrams, performance characteristics, critical manufacturing limits, and details of new materials and processes.</p> <p>Le MDN exige que les dessins répondent à la norme Niveau II, Prototype de Production, Dessins de Conception et Ingénierie limité. Ces dessins d'ingénierie doivent inclure, le cas échéant, des listes de pièces, des dessins détaillés et d'assemblage, l'interface des données de contrôle, des diagrammes, des caractéristiques de rendement, de fabrication critiques, des limites et des détails sur les nouveaux matériaux et procédés.</p>	2016-07-21

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9E	LOI Annex A / LI Annexe A	2016-07-20	<p>Please clarify the following items regarding the Technical Data Package described in section 7.5.3 of Annex A:</p> <p>a. Are TIFF files and Data Lists required?</p> <p>b. Please confirm that commercial items such as wiring, conduit and piping can be described on the drawings with quantity "A/R" and specification "commercial" in accordance with the practices in the TDP provided in the LOI package (i.e. that the TDP does not need a level III drawing for each individual wire or section of pipe and conduit).</p>	<p>Affirmative, TIFF files for Level II Engineering Drawings and Data lists are required. This is the definition of Data List – a document which lists and identifies all drawings, specifications, standards, subsidiary DLs, installation instructions, notes and other documents.</p> <p>Affirmative, A/R and commercial is acceptable description. Level II drawing are required for each items specified as "commercial" and quantity A/R. The item OEM, Part Number and short description should be identified within the level II drawing.</p>	2016-07-21

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9F	LI Annexe A	2016-07-20	<p>Veuillez préciser les points suivants concernant les données techniques dont il est question à la section 7.5.3 de l'annexe A</p> <p>a. Est-ce que les dossiers TIFF et les Listes des Données sont requis?</p> <p>b. Veuillez confirmer que les articles commerciaux tels que le câblage, les conduites et canalisations peuvent être décrits sur les dessins avec la quantité A/R et la spécification "commercial" conformément aux pratiques de la PDT fournis dans la lettre d'intention (c.-à-d. que le PDT ne requiert pas un dessin de niveau III pour chaque fil ou article de tuyaux et conduites).</p>	<p>Affirmatif, les fichiers TIFF associés aux dessins d'ingénierie de niveau II ainsi que les listes de données sont nécessaires. Il s'agit là de la définition même des listes de données – un document qui énumère et identifie tous les dessins, spécifications, normes, filiale DLS, instructions d'installation, notes et autres documents</p> <p>Affirmatif, "A/R" et "commercial" sont des descriptions acceptables. Un dessin de niveau II est requis pour chacun des produits désignés comme étant "commercial" et de quantité "A/R". Le numéro d'article du manufacturier, le numéro de pièce et une brève description doivent être identifiés à chaque dessin de niveau II.</p>	2016-07-21

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10 E	LOI	2016-07-21	<p>If we are not able to meet the requirement for (a) ii. Can we submit a response to the ITQ in conjunction with a partner/subcontractor that does meet that requirement?</p> <p>"Suppliers must have built or customized and successfully delivered at least one (1) system in similar complexity to the CDS within the last five (5) years. A system in similar complexity must be a system that is either storing, compressing, extending, mixing or distributing gases for human respiratory purposes."</p>	<p>Canada intends to enter into contract with a qualified supplier. Canada is not expecting that supplier to be expert and qualified in both ISO container's fabrication/customization and diving systems inspection/overhaul and certification. Therefore, Canada is expecting to enter into contract with a qualified ISO container's contractor who will use the services of a qualified Subcontractor in diving systems or vice versa. In both cases, at the Letter of Interest and Invitation to Qualify stage, the supplier must submit a qualification package for him that will also include the qualification package of the Subcontractor that he intends to contract.</p>	2016-07-21

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10 F	LI	2016-07-21	<p>Si nous ne sommes pas en mesure de satisfaire à l'exigence de a) II, pouvons-nous soumettre une réponse à la LI et IQ en collaboration avec un partenaire/sous-traitant qui satisfait à cette exigence?</p> <p>"Les fournisseurs doivent avoir construit ou modifié et livré avec succès au moins un (1) système de complexité similaire à celui du SPC au cours des 5 dernières années. Un système de complexité similaire doit être un système qui soit entrepose, compresse, détend, mélange ou distribue des gaz respiratoires pour consommation humaine."</p>	<p>Le Canada a l'intention de conclure un marché avec un fournisseur qualifié. Le Canada ne s'attend pas à ce que le fournisseur soit à la fois un expert et qualifié au niveau de la fabrication/modification de conteneurs ISO et au niveau d'inspection/reconditionnement et certification de systèmes de plongée. Par conséquent, le Canada s'attend à conclure un marché avec un entrepreneur qualifié dans le domaine des conteneurs ISO qui utilisera les services d'un sous-traitant qualifié dans les systèmes de plongée, ou vice versa. Dans les deux cas, à l'étape de la Lettre d'Intérêt et Invitation à se Qualifier, le fournisseur doit soumettre une trousse de qualification pour lui qui inclura également la trousse de qualification du sous-traitant avec qui il entend conclure un marché.</p>	2016-07-21
11 E	LOI	2016-07-21	<p>Regarding requirement 2 (b), "The supplier must demonstrate that they are be certified under The Safety Standard for Pressure Vessels for Human Occupancy (ASME PVHO-1)", would our certification to US Navy NAVSEA Note 5000 standards (which qualify us to do work on SUBSAFE activity - providing repair and alteration services) be considered as equivalent to ASME PVHO-1?</p>	<p>Negative. NAVSEA Note 5000 standards is not recognized by DND for this project. ASME PVHO-1 must be used as guidelines.</p>	2016-07-21

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11 F	LI	2016-07-21	Concernant l'exigence 2 b), "Les fournisseurs intéressés doivent démontrer à la satisfaction du Canada qu'ils ont de la capacité dans la conception de système, fabrication, la mise en marche et les essais. Les fournisseurs doivent démontrer qu'ils sont homologués en accord avec "The Safety Standard for Pressure Vessels for Human Occupancy (ASME PVHO-1)", est-ce que notre certification "US Navy NAVSEA Note 5000 standards" (qui nous permet de nous qualifier pour l'exécution d'activités "SUBSAFE" et de fournir des services de réparation et de modification) serait considérée comme équivalente à la norme ASME PVHO-1?	Négatif. NAVSEA note 5 000 n'est pas une norme reconnu par le MDN pour ce project. ASME PVHO-1 doit servir de lignes directrices.	2016-07-21

REMOVAL AND REINSTALLATION OF THE CDS INTO NEW ISO CONTAINERS and 60 MONTH PREVENTIVE
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LOI-ITQ / EXAMPLES OF DID

9 CONTRACT DELIVERABLE REQUIREMENT LIST (CDRL) AND DATA ITEM DESCRIPTION (DID)

9.1 General

9.1.1 Document Changes/Updates

All the approved documents shall be prepared and updated as required by the CDRL. All changes to updated versions of documents shall be identified as follows:

1. On a change page indicating page numbers, paragraph numbers, date of change and reason for change;
2. Within the hard copy, by use of change bars in the side margins of the printed document; and
3. Within the soft copy, using a method appropriate to the authoring tools that clearly differentiates old content from new or revised content.

Proposed amendments and the list of effective pages shall be forwarded to the TA for approval as described in the CDRL.

9.1.2 Deliverable Format and Number of Copies

The number of documentation copies required for each CDRL is defined within each CDRL.

NOTE: All soft copies of documentation shall be in the original editable source file format, e.g. Microsoft Word 2003.

9.1.3 Abbreviations:

The following abbreviations are used in the CDRLs and DIDs.

A	Approval	PCA	Physical Configuration Audit
AT	Acceptance Test	PDR	Preliminary Design Review
CA	Contract Award	R	Review
CDR	Critical Design Review	SRR	System Requirements Review
I	Information only	STW	Set To Work
Month	Calendar month	wd	Working day
wks	Weeks	FTP	File Transfer Protocol

9.2 CDRL

9.2.1 Project Management CDRL Summary

Project Management CDRL					
CDRL #	DID #	Deliverable	Review Level	Due	Section in SOW
CDRL-PM-01	DID-PM-01	Project Management Plan	A	Project Kick Off and SRR Meeting date - 10 wd	4.2 and 4.4.1
CDRL-PM-02	DID-PM-02	Meeting Agendas	A	Meeting date - 5 wd	4.4.5
CDRL-PM-03	DID-PM-03	Meeting Minutes	A	Meeting date + 5 wd	4.4.7
CDRL-PM-04	DID-PM-04	Project Status Reports	R	5 th wd of each month	4.5.1
CDRL-PM-05	N/A	Project Kick Off and SRR Meeting	R	CA +6 wks	4.4.1

9.2.2 Engineering CDRL Summary

Engineering CDRL					
CDRL #	DID #	Deliverable	Review Level	Due	Section in SOW
CDRL-EN-01	DID-EN-01	System Requirements Review Data Package	R	SRR-10 wd	5.1.1
CDRL-EN-02	DID-EN-02	Preliminary Design Review Data Package	R	PDR-10 wd	5.1.2
CDRL-EN-03	DID-EN-03	Critical Design Review Data Package	R	CDR-10 wd	5.1.3
CDRL-EN-04	DID-EN-04	New Drawings Packages and Technical Data Packages	A	PDR and CDR-10 wd	5.3.7 and 7.5.3
CDRL-EN-05	DID-EN-05	Functional Configuration Audit	A	FCA-10 wd	5.1.4

9.2.3 Acceptance Testing CDRL Summary

Acceptance Testing CDRL					
CDRL #	DID #	Deliverable	Review Level	Due	Section in SOW
CDRL-AT-01	DID-AT-01	Factory Acceptance Test Plan	A	STW-10 wd	4.2.6 and 6.4.1
CDRL-AT-02	DID-AT-02	Factory Acceptance Test Procedures	A	STW Test-10 wd	6.4.2
CDRL-AT-03	DID-AT-03	Factory Acceptance Test Reports	R	Acceptance Test+10 wd	6.4.3

9.2.4 Integrated Logistics Support CDRL Summary

Integrated Logistics Support CDRL					
CDRL #	DID #	Deliverable	Review Level	Due	Section in SOW
CDRL-LOG-01	N/A	Provisioning Parts Breakdown	A	CDR-10 wd	7.3.1
CDRL-LOG-02	DID-LOG-02	Materiel Requirement Packages	A	CDR-10 wd	5.4 and 7.6.2

9.2.5 Project Management CDRL Details**9.2.5.1 CDRL-PM-01**

1	Sequence Number:	PM-01
2	Title or Description of Data	Project Management Plan
3	Data Item Description Number:	DID-PM-01
4	Reference:	SOW paras: 4.2 and 4.4.1
5	First Submission:	Project Kick Off and SRR Meeting date -10 wd
6	Number of Copies:	1 soft copy in source format
7	TA Approval Required:	Yes
8	Approval Lead Time:	10 wd
9	Subsequent Submission:	As required, if changes needed. Deliver soft copy of the change pages only
10	Remarks:	Deliver via email or FTP

9.2.5.2 CDRL-PM-02

1	Sequence Number:	PM-02
2	Title or Description of Data:	Meeting Agendas
3	Data Item Description Number:	DID-PM-02
4	Reference:	SOW para 4.4.5
5	First Submission:	Meeting Date -5 days
6	Number of Copies:	1 soft copy in source format
7	TA Approval Required:	Yes
8	Approval Lead Time:	N/A
9	Subsequent Submission:	N/A
10	Remarks:	Deliver via email or FTP

9.2.5.3 CDRL-PM-03

1	Sequence Number:	PM-03
2	Title or Description of Data:	Meeting Minutes
3	Data Item Description Number:	DID-PM-03
4	Reference:	SOW para 4.4.7
5	First Submission:	Meeting date + 5 wd
6	Number of Copies:	1 soft copy in source format
7	TA Approval Required:	Yes
8	Approval Lead Time:	N/A
9	Subsequent Submission:	N/A
10	Remarks:	Deliver via email or FTP

9.2.5.4 CDRL-PM-04

1	Sequence Number:	PM-04
2	Title or Description of Data:	Project Status Reports
3	Data Item Description Number:	DID-PM-04
4	Reference:	SOW para 4.5.1
5	First Submission:	5 th wd of each month
6	Number of Copies:	1 soft copy in source format
7	TA Approval Required:	No
8	Approval Lead Time:	N/A
9	Subsequent Submission:	N/A
10	Remarks:	Deliver via email or FTP

9.2.5.5 CDRL-PM-05

1	Sequence Number:	PM-05
2	Title or Description of Data:	Project Kick Off and SRR Meeting
3	Data Item Description Number:	N/A
4	Reference:	SOW para 4.4.1
5	First Submission:	CA + 6 wks
6	Number of Copies:	N/A
7	TA Approval Required:	No
8	Approval Lead Time:	N/A
9	Subsequent Submission:	N/A
10	Remarks:	Deliver via email or FTP

9.2.6 Engineering CDRL Details

9.2.6.1 CDRL-EN-01

1	Sequence Number:	EN-01
2	Title or Description of Data:	System Requirements Review Data Package
3	Data Item Description Number:	DID-EN-01
4	Reference:	SOW para 5.1.1
5	First Submission:	SRR-10 wd
6	Number of Copies:	1 soft copy in source format
7	TA Approval Required:	No
8	Approval Lead Time:	N/A
9	Subsequent Submission:	N/A
10	Remarks:	Deliver via email or FTP

9.2.6.2 CDRL-EN-02

1	Sequence Number:	EN-02
2	Title or Description of Data:	Preliminary Design Review Data Package
3	Data Item Description Number:	DID-EN-02
4	Reference:	SOW para 5.1.2
5	First Submission:	PDR-10 wd
6	Number of Copies:	1 soft copy in source format
7	TA Approval Required:	No
8	Approval Lead Time:	N/A
9	Remarks:	Deliver via email or FTP

9.2.6.3 CDRL-EN-03

1	Sequence Number:	EN-03
2	Title or Description of Data:	Critical Design Review Data Package
3	Data Item Description Number:	DID-EN-03
4	Reference:	SOW para 5.1.3
5	First Submission:	CDR-10 wd
6	Number of Copies:	1 soft copy in source format
7	TA Approval Required:	No
8	Approval Lead Time:	N/A
9	Subsequent Submission:	N/A
10	Remarks:	Deliver via email or FTP

9.2.6.4 CDRL-EN-04

1	Sequence Number:	EN-04
2	Title or Description of Data:	New Drawings Packages and Technical Data Packages
3	Data Item Description Number:	DID-EN-04
4	Reference:	SOW para 5.3.7 and 7.5.3
5	First Submission:	PDR and CDR-10 wd
6	Number of Copies:	1 soft copy in source format
7	TA Approval Required:	Yes
8	Approval Lead Time:	PDR and CDR-10 wd
9	Subsequent Submission:	N/A
10	Remarks:	Deliver via email or FTP

9.2.6.5 CDRL-EN-05

1	Sequence Number:	EN-05
2	Title or Description of Data:	Functional Configuration Audit
3	Data Item Description Number:	DID-EN-05
4	Reference:	SOW para 5.1.4
5	First Submission:	FCA-10 wd
6	Number of Copies:	1 soft copy in source format
7	TA Approval Required:	Yes
8	Approval Lead Time:	FCA-10 wd
9	Subsequent Submission:	N/A
10	Remarks:	Deliver via email or FTP

9.2.7 Testing and Acceptance CDRL Details**9.2.7.1 CDRL-AT-01**

1	Sequence Number:	AT-01
2	Title or Description of Data:	Factory Acceptance Test Plan
3	Data Item Description Number:	DID-AT-01
4	Reference:	SOW paras 4.2.6 and 6.4.1
5	First Submission:	STW-10 wd
6	Number of Copies:	1 soft copy in source format
7	TA Approval Required:	Yes
8	Approval Lead Time:	10 wd
9	Subsequent Submission:	N/A
10	Remarks:	Deliver via email or FTP

9.2.7.2 CDRL-AT-02

1	Sequence Number:	AT-02
2	Title or Description of Data:	Factory Acceptance Test Procedure
3	Data Item Description Number:	DID-AT-02
4	Reference:	SOW para 6.4.2
5	First Submission:	STW Test -10 wd
6	Number of Copies:	1 soft copy in source format
7	TA Approval Required:	Yes
8	Approval Lead Time:	N/A
9	Subsequent Submission:	As required, if changes
10	Remarks:	Deliver via email or FTP

9.2.7.3 CDRL-AT-03

1	Sequence Number:	AT-03
2	Title or Description of Data:	Factory Acceptance Test Reports
3	Data Item Description Number:	N/A
4	Reference:	SOW para 6.4.3
5	First Submission:	STW Test Completed + 10 wd
6	Number of Copies:	1 soft copy in source format
7	TA Approval Required:	No
8	Approval Lead Time:	N/A
9	Subsequent Submission:	N/A
10	Remarks:	Deliver via email or FTP

9.2.8 Integrated Logistics Support CDRL Details**9.2.8.1 CDRL-LOG-01**

1	Sequence Number:	LOG-01
2	Title or Description of Data:	Provisioning Parts Breakdown Documentation
3	Data Item Description Number:	N/A
4	Reference:	SOW 7.3.1
5	First Submission:	CDR-10 wd
6	Number of Copies:	1 soft copy in source format
7	TA Approval Required:	Yes
8	Approval Lead Time:	N/A
9	Subsequent Submission:	N/A
10	Remarks:	Deliver via email or FTP

9.2.8.2 CDRL-LOG-02

1	Sequence Number:	LOG-02
2	Title or Description of Data:	Material Requirement Packages
3	Data Item Description Number:	DID-LOG-02
4	Reference:	SOW paras: 5.4 and 7.6.2
5	First Submission:	CDR - 10 wd
6	Number of Copies:	1 soft copy in source format
7	TA Approval Required:	Yes
8	Approval Lead Time:	N/A
9	Subsequent Submission:	N/A
10	Remarks:	Deliver via email or FTP

9.3 Data Item Descriptions (DID)

9.3.1 Project Management DIDs

9.3.1.1 DID-PM-01

1. TITLE		2. IDENTIFICATION NUMBER	
Project Management Plan		DID-PM-01	
3. DESCRIPTION / PURPOSE			
To provide a Project Management Plan for the CDS container replacement development.			
4. APPROVAL DATE	5. OFFICE OF PRIMARY INTEREST (OPI)	6. SPARE	
	Technical Authority, DNPS 6-4-2		
7. APPLICATION / INTERRELATIONSHIP			
CDRL - PM-01 SOW Ref: section 4.2 and 4.4.1			
8. ORIGINATOR		9. APPLICABLE FORMS	
10. PREPARATION INSTRUCTIONS			
10.1	The Project Management Plan (PMP) shall be prepared in Contractor's format.		
10.2	<p>Structure - The PMP shall contain, as a minimum, the following sections:</p> <ol style="list-style-type: none"> 1. Introduction; 2. Management Organization and Responsibilities; 3. Work Breakdown Structure (WBS); 4. Master Schedule with Milestones; 5. Hardware development Plan; 6. Electrical Development Plan 7. Risk Management Plan; 8. Configuration Management Plan (CMP); 9. Integrated Logistic Support (ILS); and 10. Quality Assurance (QA) Plan: <ul style="list-style-type: none"> - Inspection and Test Plan (ITP) - Set To Work (STW) Plan - Factory Acceptance Test (FAT) Plan. 		

9.3.1.2 DID-PM-02

1. TITLE Meeting Agendas		2. IDENTIFICATION NUMBER DID-PM-02	
3. DESCRIPTION / PURPOSE The purpose of the Meeting / Teleconference / Conference Supporting Documentation and Agenda is to provide the proposed subject items for review and discussion.			
4. APPROVAL DATE	5. OFFICE OF PRIMARY INTEREST (OPI) Technical Authority, DNPS 6-4-2		6. SPARE
7. APPLICATION / INTERRELATIONSHIP CDRL - PM-02 SOW Ref: section 4.4.5			
8. ORIGINATOR		9. APPLICABLE FORMS	
10. PREPARATION INSTRUCTIONS			
10.1 Supporting documentation and agenda shall be prepared in the Contractor's format.			
10.2 The Agenda shall include the following: <ul style="list-style-type: none"> 1. Purpose of the meeting; 2. List of expected attendees; 3. Time, date, location and expected duration of the meeting; 4. Facilities and equipment to be provided for attending personnel; 5. List of data items and documents to be reviewed or provided to support the meeting. Adequate copies of all such data and documentation shall be provided; and 6. Adequate copies of the current AIL where appropriate. 			

9.3.1.3 DID-PM-03

1. TITLE		2. IDENTIFICATION NUMBER	
Meeting Minutes		DID-PM-03	
3. DESCRIPTION / PURPOSE			
The purpose of Meeting / Teleconference / Conference Minutes is to document discussions, agreements and action items identified (with the responsible parties and closure dates) reached during subject meetings.			
4. APPROVAL DATE	5. OFFICE OF PRIMARY INTEREST (OPI)	6.SPARE	
	Technical Authority, DNPS 6-4-2		
7. APPLICATION / INTERRELATIONSHIP			
CDRL-PM-03 SOW Ref: section 4.4.7			
8. ORIGINATOR		9. APPLICABLE FORMS	
10. PREPARATION INSTRUCTIONS - INSTRUCTIONS SUR LA PRESENTATION DES			
Meeting / Teleconference / Conference Minutes shall be prepared in the Contractor's format and			
10.1 shall include the following information:			
<ol style="list-style-type: none"> 1. Date and location of meeting; 2. Name, organization, phone number, e-mail address and title of each person that attended the meeting; 3. Statement relating to the purpose and/or objective of the meeting; and 4. The original agenda and any revisions to the agenda - this may be accomplished by reference to attachments or enclosures. 			
10.2 Minutes should include a record of each item discussed or reviewed during the meeting, including:			
<ol style="list-style-type: none"> 1. A brief statement identifying the item or problem and their status; 2. A summary of pertinent information associated with the item; 3. A recommendation; 4. An action item - identifying the person or organization responsible for taking and/or co-ordinating required action with key dates; and 5. An updated Action Item List (AIL). 			
10.3 Meeting minutes should be distributed, where possible, at the end of the meeting and signed by the responsible parties before leaving. Otherwise the meeting minutes shall be delivered as directed in CDRL.			

9.3.1.4 DID-PM-04

1. TITLE		2. IDENTIFICATION NUMBER	
Project Status Reports (PSR)		DID-PM-04	
3. DESCRIPTION / PURPOSE			
Project Status Reports provide the project status of work in progress, management and mitigation of risk, and schedule. The report shall be used to evaluate progress and to identify project management, technical, and schedule issues.			
4. APPROVAL DATE	5. OFFICE OF PRIMARY INTEREST (OPI)	6. SPARE	
	Technical Authority, DNPS 6-4-2		
7. APPLICATION / INTERRELATIONSHIP			
CDRL-PM-04 SOW Ref: section 4.5.1			
8. ORIGINATOR		9. APPLICABLE FORMS	
10. PREPARATION INSTRUCTIONS			
10.1 The Project Status Reports shall be prepared in the Contractor's format and contain necessary amendments to the PMP as appropriate.			
10.2 The Project Status Reports shall include at least the following information:			
<ol style="list-style-type: none"> 1. A narrative report providing sufficient detail to enable the Contracting and the Technical Authorities to evaluate the progress of the work to date; 2. Risk management activities. Significant problems or concerns encountered together with recommended course of action; 3. Schedules status, schedule changes and planned activities for the next reporting period; 4. A summary of any issues for meeting requirements / specifications; 5. Running summary of hardware and system observations and problems that have been opened, are in progress or have been resolved; and 6. Subset of Action Item List containing all open action items. 			

9.3.2 Engineering DIDs**9.3.2.1 DID-EN-01**

1. TITLE		2. IDENTIFICATION NUMBER	
System Requirements Review (SRR) Data Package		DID-EN-01	
3. DESCRIPTION / PURPOSE			
The System Requirements Review Data Package shall provide all of the review materials required for the System Requirements Review meeting.			
4. APPROVAL DATE	5. OFFICE OF PRIMARY INTEREST (OPI)		6. SPARE
	Technical Authority, DNPS 6-4-2		
7. APPLICATION / INTERRELATIONSHIP - APPLICATION / INTERDEPENDENCE			
CDRL-EN-01 SOW Ref: section 5.1.1			
8. ORIGINATOR		9. APPLICABLE FORMS	
10. PREPARATION INSTRUCTIONS			
10.1 The following document shall be provided for the System Requirements Review meeting:			
<ol style="list-style-type: none"> 1. System Requirements Specification including mechanical, electrical hardware and all sub-systems. 2. A Quality Plan must be submitted ten (10) days after contract award IAW SACC D5402C. 			

9.3.2.2 DID-EN-02

1. TITLE		2. IDENTIFICATION NUMBER	
Preliminary Design Review Data Package		DID-EN-02	
3. DESCRIPTION / PURPOSE			
The Preliminary Design Review Data Package shall provide all of the review materials required for the Preliminary Design Review meeting.			
4. APPROVAL DATE	5. OFFICE OF PRIMARY INTEREST (OPI)		6. SPARE
	Technical Authority, DNPS 6-4-2		
7. APPLICATION / INTERRELATIONSHIP			
CDRL-EN-02 SOW Ref: section 5.1.2			
8. ORIGINATOR		9. APPLICABLE FORMS	
10. PREPARATION INSTRUCTIONS			
10.1 The following preliminary documents must be provided for the Preliminary Design Review meeting: <ol style="list-style-type: none"> 1. Report of equipment that can and can't be salvaged. The report shall include a list of parts to be replaced and its related costs; 2. Preliminary Electrical schematics / design; 3. Preliminary Electrical hardware; 4. Preliminary Mechanical drawings / design; 5. Preliminary Mechanical hardware; and 6. Photographs of the interior and exterior of both Recompression Chambers. 			

9.3.2.3 DID-EN-03

1. TITLE		2. IDENTIFICATION NUMBER	
Critical Design Review Data Package		DID-EN-03	
3. DESCRIPTION / PURPOSE			
The Critical Design Review Data Package shall provide all of the review materials required for the Critical Design Review meeting.			
4. APPROVAL DATE	5. OFFICE OF PRIMARY INTEREST (OPI)	6. SPARE	
	Technical Authority, DNPS 6-4-2		
7. APPLICATION / INTERRELATIONSHIP - APPLICATION / INTERDEPENDENCE			
CDRL-EN-03 SOW Ref: section 5.1.3			
8. ORIGINATOR		9. APPLICABLE FORMS	
10. PREPARATION INSTRUCTIONS			
10.1 The following detailed documents must be provided for the Critical Design Review meeting:			
<ol style="list-style-type: none"> 1. Final Electrical schematics / design; 2. Final Electrical hardware; 3. Final Mechanical drawings / design; 4. Final Mechanical Hardware; 5. Inspection Test Plan (ITP); 6. Preliminary Set to Work (STW); 7. Preliminary FAT plan; 8. Approval by the Regulatory Bodies of the Design and Final drawings of the new/re-configured RCC and WKSP containers; and 9. Approval by the Regulatory Bodies of the Design and Final drawings of the reinstalled/re-configured Containerized Diving System (CDS). 			

9.3.2.4 DID-EN-04

1. TITLE - TITRE New Drawing Package and Technical Data Package		2. IDENTIFICATION NUMBER DID-EN-04
3. DESCRIPTION / PURPOSE 3.1 The New Drawing Package shall provide the following drawings for both new CDS: <ul style="list-style-type: none"> - Assembly Drawings; - General Arrangement Drawings / Layout; - Sub-Assembly System drawings; - Individual Drawings of all components; and - It shall cover as a minimum, the mechanical and electrical systems including the wiring diagrams. 3.2 The Technical Data Package shall provide the following for both new CDS: <ul style="list-style-type: none"> - List of parts numbers; and - Technical/specification data of newly installed components. 		
4. APPROVAL DATE	5. OFFICE OF PRIMARY INTEREST (OPI) Technical Authority, DNPS 6-4-2	6. SPARE
7. APPLICATION / INTERRELATIONSHIP INTERDEPENDENCE CDRL-EN-04 SOW Ref: section 5.3.7 and 7.5.3		
8. ORIGINATOR		9. APPLICABLE FORMS
10. PREPARATION INSTRUCTIONS		
10.1 Prepare drawings IAW: <ul style="list-style-type: none"> - C-03-005-012/AM-001 Part 16, "Standard Engineering Drawing Practices for Class 1 Drawings and Technical Data List"; and - D-01-400-001/SG-000, "Engineering Drawing Practices for Class Drawing and Technical Data List". 10.2 Shall include installation drawings of all equipment that will be replaced, including cables.		

9.3.2.5 DID-EN-05

1. TITLE - TITRE Functional Configuration Audit		2. IDENTIFICATION NUMBER DID-EN-05	
3. DESCRIPTION / PURPOSE The Functional Configuration Audit shall provide a functional configuration package that will consist of: <ul style="list-style-type: none"> - The CDR agreed configuration data package; - The as built configuration data package; and - The discrepancy log. 			
4. APPROVAL DATE	5. OFFICE OF PRIMARY INTEREST (OPI) Technical Authority, DNPS 6-4-2		6. SPARE
7. APPLICATION / INTERRELATIONSHIP INTERDEPENDENCE CDRL-EN-05 SOW Ref: section 5.1.4			
8. ORIGINATOR		9. APPLICABLE FORMS	
10. PREPARATION INSTRUCTIONS			
10.1 Prepare the baseline and as built drawings IAW MIL STD 973			

9.3.3 Acceptance Testing DIDs**9.3.3.1 DID-AT-01**

1. TITLE		2. IDENTIFICATION NUMBER	
Factory Acceptance Test (FAT) Plan		DID-AT-01	
3. DESCRIPTION / PURPOSE			
Describe the plans for testing of hardware and electrical items for the CDS. Describe the test environments to be used for the testing, identify the tests to be performed, and provide schedules for test activities.			
4. APPROVAL DATE	5. OFFICE OF PRIMARY INTEREST (OPI)	6. SPARE	
	Technical Authority, DNPS 6-4-2		
7. APPLICATION / INTERRELATIONSHIP			
CDRL-AT-01 SOW Ref: section 4.2.6 and 6.4.1			
8. ORIGINATOR		9. APPLICABLE FORMS	
10. PREPARATION INSTRUCTIONS			
<p>10.1 May be prepared in the Contractor's format.</p> <p>10.2 This document shall contain the following generic information items:</p> <ol style="list-style-type: none"> 1. Date of issue and status; 2. Scope of work required; 3. Identification of Testing personnel; 4. References for each test; 5. Approval authority and signature block; 6. Schedule of events; 7. Risks involve with tests; 8. Resources (Special Tools/Instruments) and their allocation; 9. Responsibilities of test personnel; 10. Quality Control and Quality Assurance responsibilities; 11. Interfaces among parties involved; and 12. Environment/infrastructure, including safety needs; 			

10.3 This document shall contain the following specific information items:

1. Test levels;
2. General test conditions;
3. Data recording and analysis;
4. Planned tests, including items and their identifiers;
5. Test schedules;
6. Identity of tester(s) and corresponding signature block;
7. Approval Authority and signature block and stamp; and
8. Signed copy for each test by tester(s) and Approval Authority;

10.4 This document shall conform to test standards.

DRAFT - EXAMPLE

9.3.3.2 DID-AT-02

1. TITLE		2. IDENTIFICATION NUMBER	
Factory Acceptance Test Procedure		DID-AT-02	
3. DESCRIPTION / PURPOSE - DESCRIPTION / OBJET			
Supplier developed Set-To-Work acceptance test procedures for the CDS containers.			
4. APPROVAL DATE	5. OFFICE OF PRIMARY INTEREST (OPI)		6. SPARE
	Technical Authority, DNPS 6-4-2		
7. APPLICATION / INTERRELATIONSHIP			
CDRL-AT-02 SOW Ref: section 6.4.2			
Equipment drawings and specifications, Equipment manuals, "As Configured" list/audit Required Test record forms, and/or computer test results, format samples, previous test results.			
8. ORIGINATOR		9. APPLICABLE FORMS	
10. PREPARATION INSTRUCTIONS			
10.1	May be prepared in the Contractor's format.		
10.2	<p>The STW acceptance test procedure shall contain the following, as a minimum:</p> <ol style="list-style-type: none"> 1. Brief description of each system under test; 2. Set-up plan and procedures; 3. A clear and concise detailed description of the steps to be followed in the setting to work of each system; 4. Set up Procedures; 5. Conditions, precautions and adjustments required during set up procedures; 6. Expected test results for mechanical, electrical and pneumatic systems; 7. List of the tools and equipment required to verify the correct operation of the CDS container; 8. Personnel and Equipment safety precautions; and 9. CDS container certificates. 		

9.3.3.3 DID-AT-03

1. TITLE Factory Acceptance Test Reports		2. IDENTIFICATION NUMBER DID-AT-03
3. DESCRIPTION / PURPOSE To report on the Factory Acceptance Test results for each CDS container after completion of the task.		
4. APPROVAL DATE	5. OFFICE OF PRIMARY INTEREST (OPI) Technical Authority, DNPS 6-4-2	6. SPARE
7. APPLICATION / INTERRELATIONSHIP CDRL-AT-03 SOW Ref: para 6.4.3		
8. ORIGINATOR	9. APPLICABLE FORMS	
10. PREPARATION INSTRUCTIONS		
10.1 May be prepared in the Contractor's format.		
10.2 The Set-To-Work Report shall include the following as a minimum: <ul style="list-style-type: none"> 1. Description of the system and the test set up environment in accordance with Table 8; 2. Copies of the Factory Acceptance Test plan and the Factory Acceptance Test procedures; 3. Signed Copies of all the test reports; and 4. A summary of the status of the equipment, any changes / modifications that were made during the set up and details of any failures experienced, and the remedial action that was taken to restore the equipment to its specified operating conditions; 		
10.3 Summary of any recommendations.		

9.3.4 Integrated Logistic Support DID

9.3.4.1 DID-LOG-02

1. TITLE – TITRE Material Requirement Packages		2. IDENTIFICATION NUMBER DID-LOG-02
3. DESCRIPTION / PURPOSE – DESCRIPTION / OBJECT The Material Safety Data Sheets (MSDS) provide information and instructions on the chemical and physical characteristics of a substance, its hazards and risks, the safe handling requirements and actions to be taken in the event of fire, spill, overexposure or other risk.		
4. APPROVAL DATE DATE D'APPROBATION	5. OFFICE OF PRIMARY INTEREST (OPI) Technical Authority: DNPS 6-4-2	6. SPARE
7. APPLICATION / INTERRELATIONSHIP – APPLICATION / INTERDÉPENDANCE CDRL-LOG-02 SOW section 5.4 and 7.6.2		
8. ORIGINATOR – AUTEUR	9. APPLICABLE FORMS – FORMULES PERTINENTES	
10. PREPARATION INSTRUCTION – INSTRUCTIONS SUR LA PRÉSENTATION DES DONNÉES		
<p>10.1 Material Safety Data Sheets may be prepared in the original product vendor format provided the requirements of sections 10.5 and 10.6 of this DID are met;</p> <p>10.2 MSDS shall be provided in both English and French; and</p> <p>10.3 Contents: - The MSDS shall conform to the requirements specified under the Canada 's Hazards Product Act and the Canadian Hazardous Material Information System (WHMIS) and will contain as a minimum information under the following nine headings:</p> <ol style="list-style-type: none"> 1. Hazardous Ingredients; 2. Preparation Information; 3. Product Information; 4. Physical Data; 5. Fire or Explosion Hazard; 6. Reactivity data; 7. Toxicological Properties; 8. Preventive measures and 9. First Aid measures. 		

DRAFT - EXAMPLE