Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

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 0A1 / Noyau 0A1
Gatineau, Québec K1A 0S5
Bid Fax: (819) 997-9776

REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION

Proposal To: Public Works and Government Services Canada

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

Proposition aux: Travaux Publics et Services Gouvernementaux Canada

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

Comments - Commentaires

Title - Sujet
SMALL UNMANNED AIRCRAFT SYSTEMS

Solicitation No. - N° de l'invitation	**Date**
W8476-133924/B	2013-08-27

Client Reference No. - N° de référence du client
W8476-133924

GETS Reference No. - N° de référence de SEAG
PW-$$RA-053-23982

File No. - N° de dossier	**CCC No./N° CCC - FMS No./N° VME**
053ra.W8476-133924	

Solicitation Closes - L'invitation prend fin
at - à 02:00 PM
on - le 2013-11-04

Time Zone
Fuseau horaire
Eastern Daylight Saving Time EDT

F.O.B. - F.A.B. Specified Herein - Précisé dans les présentes
Plant-Usine: ☐ **Destination:** ☐ **Other-Autre:** ☑

Address Enquiries to: - Adresser toutes questions à:	**Buyer Id - Id de l'acheteur**
Sprigings(ra div.), Brent	053ra

Telephone No. - N° de téléphone	**FAX No. - N° de FAX**
(819) 956-7889 ( )	(819) 956-0636

Destination - of Goods, Services, and Construction:
Destination - des biens, services et construction:

Specified Herein
Précisé dans les présentes

Instructions: See Herein

Instructions: Voir aux présentes

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

Delivery Required - Livraison exigée	**Delivery Offered - Livraison proposée**
See Herein	

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

Telephone No. - N° de téléphone
Facsimile No. - N° de télécopieur

Name and title of person authorized to sign on behalf of Vendor/Firm (type or print)
Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)

Signature **Date**

Issuing Office - Bureau de distribution

Land Projects and Communication System Support
Division/Div des projets terrestres et support de systèmes de communication
11 Laurier St. / 11, rue Laurier
8C2, Place du Portage, Phase III
Gatineau
Québec
K1A 0S5

Canada

See attached.

Annex A

BASIS OF PAYMENT

(FINANCIAL EVALUATION)

The bidder must complete the pricing tables below for SUAS-A and SUAS-S.

The pricing will be evaluated in Canadian dollars. Bids submitted in a foreign currency will be converted to Canadian currency for evaluation purposes. The rate given by the Bank of Canada in effect on the bid solicitation closing date will be applied as a conversion factor to the bid submitted in foreign currency.

Canadian and foreign based bidders must submit firm prices, Canadian custom duties, excise taxes included and Applicable Taxes excluded.

Should there be any discrepancy between the total price and the unit price quoted where applicable, the unit price shall prevail and be extrapolated for financial evaluation purposes.

The labour rates are to be all-inclusive except for travel. They are to include Canadian customs and duties and excise taxes, the price of labour, general and administrative expenses, overhead, profit and the like, excepting only GST (5%) and HST (13%) if applicable. All payments are subject to government audit.

Bidders will be assessed on the TOTAL bid price.

Including in the pricing tables below, bidders are to submit a current Price List for all labour categories and parts applicable to the requirement. Bidders are responsible for calculating the total of the Pricing Tables.

Bidders should submit prices for each item in the SUAS-A and SUAS-S as per the instructions of this annex. If some items are not part of the proposal, bidders should insert "N/A" for "Not Applicable" in the item's price field. Bidders should insert "$0.00" for any item for which it does not intend to charge because the items are already included in other prices set out in the proposal. If the Bidder leaves any price blank, the Contracting Authority will so inform the Bidder and provide the Bidder with a time frame within which to confirm the field price status. Failure to comply with the request of the Contracting Authority and confirm the field price status within that time period will render the bid non-responsive. No bidders will be permitted to add or change a price as part of this confirmation.

The formulas used below to calculate the overall Bidder's price proposal in each category is based on an estimation of the work to be performed, as follows:

The Bidder shall provide Firm Fixed Prices for delivery of the SUAS (SUAS-A), associated documentation and spare parts DDP consignee Canadian customs duties and excise taxes included to the following Consignee:

W248A
Department of National Defence
7 Canadian Forces Supply Depot Edmonton - Receipt Section
195 Avenue & 82 Street - Building 236
Edmonton, Alberta, T5J 4J5
Canada

SUAS Acquisition Contract: The Contractor will be paid firm fixed prices during the original three (3) year contract period, with optional subsequent years subject to adjustment as identified in the SUAS-A Contract.

SUAS In-Service Support Contract: The Contractor will be paid firm fixed prices for the first year with subsequent years subject to adjustment as identified in the SUAS-S Contract.

Delivery dates shall be in accordance with or earlier than the Due Date column for each table. The Contractor may propose dates other than the original Due Date indicated below. If Canada agrees to the proposed changes then the agreed changes to the proposed delivery dates will become effective at Contract award.

SUAS-A

Table 1: Contract Documentation

The Bidder shall deliver documentation required after contract award to support cataloguing, airworthiness authorization, training, and support activities.

Table 1: Post-Contract award Documentation Deliverable
(DACA: Days After Contract Award)

Milestone #	CDRL	SOW PARA	DELIVERABLE	PROPOSED PRICE	Due Date
1	PM001	4.1.1	Project Management Plan - Final	$	45 DACA
2	PM004	4.4.1	Contractor Risk Management Plan - Final	$	60 DACA
3	AW006	5.5.3.1	SUAV Identification Markings Drawings	$	45 DACA
4	AW008	5.6.2.1	Airworthiness Management Plan (AMP)	$	90 DACA
5	SE001	6.4.2, 6.4.3, 7.1.7.2.c 5	Interface Control Documents	$	60 DACA

Milestone #	CDRL	SOW PARA	DELIVERABLE	PROPOSED PRICE	Due Date
6	SE003	6.6.2, 6.6.3	Configuration Management (CM) Plan	$	60 DACA
7	SE005	6.9.1	Acceptance Test Plan and Report	$	90 DACA
8	ILS001	7.2.1	ILS Plan	$	60 DACA
9	ILS002	7.3.1	Provisioning Documentation	$	45 DACA
10	ILS003	7.6.1.2, 7.6.2, 7.6.4, 7.6.5, 7.6.7	Drawing/Associated Lists packages	$	60 DACA
11	ILS004	7.8.1	Maintenance Plan	$	60 DACA
12	ILS005	7.9.1	Recommended Spare Parts List	$	60 DACA
13	ILS006	7.1.5.1	Publication Management Plan	$	45 DACA
14	ILS007	7.17.2.b, 7.17.2.e	Technical Publications	$	45 DACA
15	T001	7.19.2.1	Training Plan	$	30 DACA
16	T002	7.19.2.1, 7.19.4.2	Recommended Training Materials List (RTML)	$	45 DACA
17	T003	7.19.5.1	Training Documentation	$	45 DACA
TOTAL PRICE				$	[redacted]

SUAS-A

Table 2: System Equipment - Acceptance Test

Milestone #	MAJOR EQUIPMENT ITEMS	QUANTITIES	PRICE PER ITEM	TOTAL ITEM PRICE	Due Date
[redacted]	Aircraft #1 & #2	2	$	$	[redacted]
	Launch/Recovery Equipment Sets #1	1	$	$	
	Shelter Ground Control Station (GCS) Equipment Set #1	1	$	$	
	GCS Equipment Installation in DND Shelter #1 (at Contractor Site)	1	$	$	
18	TOTAL PRICE			$	120 DACA
Note: The Contractor shall use DND provided equipment in the Shelter for the GCS equipment as per section 6.2.2 of the SUAS-A SOW.					[redacted]

SUAS-A

Table 3: System Equipment – Initial Cadre Training (ICT)

Milestone #	MAJOR EQUIPMENT ITEMS	QUANTITIES	PRICE PER ITEM	TOTAL ITEM PRICE	Due Date
[redacted]	Aircraft #3 & 4	2	$	$	[redacted]
	Launch/Recovery Equipment Sets #2	1	$	$	
	Shelter GCS Equipment Set #2	1	$	$	
	GCS Equipment Installation in DND Shelter #1 (at DND Site in Edmonton)	1	$	$	
19	TOTAL PRICE			$	120 DACA
Note: The Contractor shall use DND provided equipment in the Shelter for the GCS equipment as per section 6.2.2 of the SUAS-A SOW.					[redacted]

SUAS-A

Table 4: System Equipment

Milestone #	MAJOR EQUIPMENT ITEMS	QUANTITY	PRICE PER ITEM ($)	TOTAL ITEM PRICE	Due Date
20	Aircraft #5	1	$	$	150 DACA
21	Aircraft #6	1	$	$	150 DACA
22	Aircraft #7	1	$	$	150 DACA
23	Aircraft #8	1	$	$	150 DACA
24	Launch/Recovery Equipment Sets #3	1	$	$	150 DACA
25	Launch/Recovery Equipment Sets #4	1	$	$	150 DACA
26	Shelter GCS Installation Set #3	1	$	$	150 DACA
27	Shelter GCS Installation Set #4	1	$	$	150 DACA
28	Shelter GCS Installation Set #5	1	$	$	150 DACA
29	Shelter GCS Installation Set #6	1	$	$	150 DACA
30	Shelter GCS Installation Set #7	1	$	$	150 DACA
31	Classroom GCS Installation Set #1 (GCS Set #8, but for the classroom)	1	$	$	150 DACA

Milestone #	MAJOR EQUIPMENT ITEMS	QUANTITY	PRICE PER ITEM ($)	TOTAL ITEM PRICE	Due Date
32	Mobile GCS Equipment Sets #1 (for Vehicle mounted operations)	1	$	$	150 DACA
33	Mobile GCS Equipment Sets #2 (for Vehicle mounted operations)	1	$	$	150 DACA
34	Mobile GCS Equipment Sets #3 (for Vehicle mounted operations)	1	$	$	150 DACA
35	Mobile GCS Equipment Sets #4 (for Vehicle mounted operations)	1	$	$	150 DACA
36	Mobile GCS Equipment Sets #5 (for Vehicle mounted operations)	1	$	$	150 DACA
37	Mobile GCS Equipment Sets #6 (for Vehicle mounted operations)	1	$	$	150 DACA
38	Mobile GCS Equipment Sets #7 (for Vehicle mounted operations)	1	$	$	150 DACA
39	Mobile GCS Equipment Sets #8 (for Vehicle mounted operations)	1	$	$	150 DACA
[redacted]	TOTAL PRICE			$	[redacted]
Note: The Contractor shall use DND provided equipment in the Shelter and the Classroom for the GCS equipment as per section 6.2.2 of the SUAS-A SOW.					

SUAS-A

Table 5: GCS Integration Price

Milestone #	GCS INTEGRATION PRICE	QUANTITIES	PRICE PER INSTALLATION	TOTAL INSTALLATION PRICE	Due Date
40	GCS Equipment Installation in DND Shelter # 3 to 7(at DND Site in Edmonton)	5	$	$	150 DACA
41	GCS Equipment Installation in Classroom configuration in Gagetown, NB	1	$	$	150 DACA
TOTAL PRICE				$	[redacted]

SUAS-A & S

Table 6: Repairable Spares Bundle for 1000 Flight Hours

Milestone #	REPAIRBLE SPARES ITEMS	QUANTITY	PRICE PER ITEM	TOTAL ITEM PRICE	Due Date
[redacted]					[redacted]
42	TOTAL BUNDLE PRICE			$	150 DACA

SUAS-A & S

Table 7: Consumable Spares Bundle for 1000 Flight Hours

Milestone #	CONSUMABLE SPARES ITEMS	QUANTITY	PRICE PER ITEM	TOTAL ITEM PRICE	Due Date
[redacted]					[redacted]
43	TOTAL BUNDLE PRICE			$	150 DACA

SUAS-A

If applicable, the price for any optional equipment ordered with a requested delivery date more than three (3) years after Contract award date shall be subject to an appropriate Economic Price Adjustment as calculated in accordance with the Contract Terms and Conditions.

Table 8: Optional Equipment

ITEMS	QUANTITY	PRICE PER ITEM	TOTAL ITEM PRICE
Launch/Recovery Equipment Set	4	$	$
Aircraft	8	$	$
Mobile GCS Equipment Sets	8	$	$
Maritime specific equipment Set	4	$	$
OPTIONAL EQUIPMENT TOTAL PRICE			$

SUAS-A

Table 9: Instructor, Operator and Maintenance Training Services and Support

The Bidder shall identify Firm Fixed Prices for all training in accordance with (IAW) Annex B (SOW) as follows:

Table 9: Instructor, Operator and Maintenance Training

Milestone #	ITEM	QUANTITY	FIXED PRICE		TOTAL PRICE	Due Date
44	Initial Instructor Cadre Training (ICT) for 12 trainees	1	[redacted]		$	225 DACA
45	Training Material and documentation for the ICT for 12 trainees.	1			$	150 DACA
46	One (1) Instructor Supervisor for CF Operator training courses #1. The estimated number of CF trainees is 16 trainees.	____ 10 Weeks*	Price per Week for Instructor support	$	$	To Be Determined (TBD)
47	One (1) Instructor Supervisor for CF Operator training courses #2. The estimated number of CF trainees is 16 trainees.	____ 10 Weeks*	Price per Week for Instructor support	$	$	TBD
48	1st and 2nd Line Maintenance Instructor Course for 8 trainees	1	[redacted]		$	190 DACA

Milestone #	ITEM	QUANTITY	FIXED PRICE		TOTAL PRICE	Due Date
49	Training Material and documentation for the Maintenance Instructor Course for 8 trainees.	1			$	150 DACA
50	One (1) Instructor Supervisor for CF Maintenance training courses #1. The estimated number of CF trainees is 16 trainees..	____ 5 Weeks*	Price per Week for Instructor support	$	$	TBD
51	One (1) Instructor Supervisor for CF Maintenance training courses #2. The estimated number of CF trainees is 16 trainees.	____ 5 Weeks*	Price per Week for Instructor support	$	$	TBD
	TOTAL PRICE				$	
Note: The 5 or 10 weeks are for evaluation purposes only. Training price will be based on per diem identified in table 10. DND will adjust the number of weeks based on contractor and military training requirement.						

SUAS-A

Table 10: Engineering Service - Operating System conversion

If the System does not already operate under the Lockheed Martin/CDL Systems Inc. VCS-4586 operating system the Bidder shall propose a ceiling price for any work and testing required to develop and test all Vehicle Specific Module (VSM) and other software required to convert the GCS work stations, data link and aircraft to operate under VCS-4586.

Table 10: Engineering Services

Milestone #	SOFTWARE DEVELOPMENT	PRICE	Due Date
52	VSM Development and System testing	$	24 MACA
Note: Months after contract award (MACA).			

SUAS-A

Table 11: Special Tools and Test Equipment (STTE)

Bidder shall provide firm fixed pricing for the STTE list. The STTE list shall include a list of all special tools and test equipment necessary to support the SUAS capability.

Table 11: Special Tools and Test Equipment (STTE)

Milestone #	STTE ITEMS	QUANTITY	PRICE PER ITEM	TOTAL ITEM PRICE	Due Date
[redacted]			$	$	[redacted]
			$	$	
			$	$	
			$	$	
53	TOTAL PRICE			$	150 DACA

SUAS-S

Table 12: Additional Work Request and Technical Investigation and Engineering Support Tasks

The Bidder shall identify a Firm Fixed Hourly Rate for each class of labour listed in Table 12 below. The number of hours is a general estimate for Additional Work Request tasks, and does not include the routine on-site ILS support at CFB Gagetown or the Repair and Overhaul support at the Contractor facilities.

Table 12: Labour Price

No	Labour Categories	Hourly Rate	Daily Rate	Forecasted Hours	Total Price at hourly rate
1	Field Service Representative			1,500	$
2	Sr Engineer			40	$
3	Jr Engineer			80	$
4	Software Engineer			100	$
5	Technician			100	$
6	Program Manager			100	$
7	Technical Writer			200	$
8	Instructor (hourly rate for work other than contracted long term fixed price			150	$
	TOTAL LABOUR PRICE	[redacted]	[redacted]		$

SUAS-S

Table 13: Combined Proposal Price

Bidders are to insert the Total Price under "Extended Total Price" for the Tables identified below. We now have the value of the Bidder's bid price for the eventual SUAS Acquisition and Service Contracts. Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

Table 13: Bidder's Overall Price Proposal

ITEM / TABLE NUMBER – SUAS-A CONTRACT	EXTENDED TOTAL PRICE PER CATEGORY
Table 1: Contract Documentation	$
Table 2: System Equipment - Acceptance Test	$
Table 3: System Equipment – Initial Cadre Training (ICT)	$
Table 4: System Equipment	$
Table 5: GCS Integration	$
Table 6: Repairable Spares Bundle for 1000 Flight Hours	$
Table 7: Consumable Spares Bundle for 1000 Flight Hours	
Table 8: Optional Equipment	$
Table 9: Instructor, Operator and Maintenance Training	$
Table 10: Engineering Services	$
Table11: Tools and Test Equipment	$
Total Acquisition Price Row A	$

ITEM / TABLE NUMBER – SUAS-S Contract	EXTENDED TOTAL PRICE PER CATEGORY
Table 12: Labour Price	$
Total ISS Price Row B	$

Total Acquisition Price Identified in Row A	$
Total ISS Price Identified in Row B	$
TOTAL PRICE A plus B	$

Table 14: Estimated Repair and Overhaul (R&O) Service Support

The estimated R&O services under Annex D (In Service Support SOW) shall be based on a 12 year period. (I.e.: The original seven (7) year In Service Support Contract term plus five (5) additional one (1) year Contract extensions.)

For estimate purposes the Bidder shall assume that for the 12 year planning period the total of training and deployed operational flights will be 3,500 launch/recovery cycles and 20,000 flight hours.

Note: Table 14 is for informational purposes only and the estimated price is not to be included in the bid evaluation summary Table 13.

Table 14: Estimated R&O Service Support

ITEM	USAGE		ESTIMATED PRICE
Launch System	Cycles	3,500	$
Recovery System	Cycles	3,500	$
Aircraft	Hours	20,000	$
(Bidder to insert additional items as appropriate)			
TOTAL PRICE			$

Table 15: Estimated Attrition Replacements

The Bidder shall identify typical attrition prices based on the equipment performance data collected during operations and trials.

Note: Table 15 is for informational purposes only and the estimated price is not to be included in the bid evaluation summary Table 13.

Table 15: Estimated Attrition Replacements

ITEMS PER 20,000 FLIGHT HOURS	QUANTITY	PRICE PER ITEM	TOTAL ITEM PRICE
Aircraft with baseline Payload			$
Consumable items:			
ATTRITION REPLACEMENT TOTAL PRICE - 20,000 FLIGHT HOURS			$
Note: The bid evaluation will include the attrition total price estimate.			

Table 16 - Consumable Spares Price List

Consumable Spares:
Bidders must provide a price list for consumables in Table 16 - Consumable Spares below.

Prices are based on Incoterms 2000 DDP Delivered Duty Paid, including any applicable Customs/Duties, GST/HST Extra (if applicable), as follows:

CFB Gagetown
New Brunswick, Canada

Prices are not to be higher than those provided to their most favoured customer. Bidders must submit evidence as per SACC Manual Clauses C0305C (2008-05-12) Cost Submission.

Prices will be escalated on a yearly basis as per Article 6 - Payment, para 6.5.2 Firm Price.

Note: Table 16 is for informational purposes only and the estimated price is not to be included in the bid evaluation summary Table 13.

Table 16: Consumable Spare Parts price list

CONSUMABLE PARTS	Unit of Issue (UOI)	PRICE

ANNEX B

CANADIAN ARMY

SMALL UNMANNED AIRCRAFT SYSTEM (SUAS)

SYSTEM PERFORMANCE SPECIFICATION (SPS)

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1. SCOPE

1.1 General

1.1.1 The Specifications listed hereafter are for the performance of the Small Unmanned Aircraft System (SUAS) for the Canadian Army Family of Unmanned Aircraft Systems (FUAS). This SUAS is part of the Intelligence, Surveillance, Target Acquisition and Reconnaissance (ISTAR) project deliverables.

1.1.2 The complete package of the Contractor supplied equipment and software is hereafter referred to as the "System".

1.2 Background

1.2.1 One of the key components of the FUAS is the Small Unmanned Aerial Vehicle (SUAV) aircraft used to carry the required payloads. The SUAV is the Canadian Army platform of choice to provide persistent (12 hours on station) high performance Intelligence, Surveillance and Reconnaissance (ISR) payload carrier and data services in direct support to Canadian Armed Forces (CAF) units and sub-units anywhere that CAF units are assigned to conduct training and operations.

1.2.2 A CAF Mobile Support Vehicle System (MSVS) shelter will be used for the stationary version of the Ground Control System (GCS) to control the Unmanned Air Vehicle (UAV) platform and equipment delivered for the System. There will also be a smaller vehicle installed GCS capability.

1.3 Definitions: Mandatory and Rated Criteria

1.3.1 In specifying the different requirements for the System, two (2) levels of measurement will be used. They are defined as follows and have the following relationship to the Contract:

a. Mandatory requirements as identified by "shall" indicate criteria for which the System is deemed to be non-compliant if it fails to perform at a level which is equivalent to or better than the minimum performance stipulated in the applicable section of the SPS; and

b. Rated capabilities as identified by "should" denote criteria that are deemed to enhance the operational value of the System.

Note: Where deemed appropriate and/or practical the Mandatory and Rated criteria shall be demonstrated during System acceptance testing.

2. REFERENCES

2.1 Applicable reference acronyms, definitions, publications, and documents are listed at Annex F

3. GENERAL REQUIREMENT

3.1 Equipment

3.1.1 Each System shall include the air vehicles (AVs) and all the specialised ground equipment required for the runway independent AV launch and recovery and the in-flight control of the AVs.

3.1.2 For the initial program deliverables each System shall include:

a. four (4) aircraft;

b. two (2) sets of launch/recovery equipment;

c. four (4) mobile Ground Control Station (GCS) sets; and

d. four (4) Stationary GCS sets.

3.2 Radio Frequency Safety

3.2.1 Safety distances for exposure to radio-frequency radiation shall conform to DND and Canadian government regulations and standards.

> Note: For DND standards refer to Canadian Forces Technical Order C-55-040-001/TS-001, Radio Frequency Safety Program.

4. HANDLING AND OPERATIONS

4.1 Handling

4.1.1 All System components, assemblies (except for the aircraft) and packed storage/shipping containers that need to be manually lifted and positioned by CAF personnel during System operational setup, the conduct of operations, and during post-operational equipment pack-up, shall have a mass of less than 60 kg /132 lb. (I.e.: The limit for items to be deemed “man transportable” by a two (2) person team In Accordance With (IAW) STANAG 2998/AAP 24.)

4.1.2 All System components, assemblies and packed storage/shipping containers that need to be manually towed, rolled, or skidded into position by CAF personnel during System operational setup, the conduct of operations, and during post-operational equipment pack-up, shall have a mass of less than 200 kg /440 lb. (I.e.: The limit for an item to be deemed “man-movable” by one (1) person IAW STANAG 2998/AAP 24.)

4.1.3 With the payload required to meet the mission profile, the assembled aircraft shall have a Gross Maximum Take Off Weight (GMTOW) of less than 84 kg /185 lbs.

4.2 System Deployment

4.2.1 The shelter installed Stationary GCS (SGCS) design and shipping procedures shall enable a crew of four (4) typical size and typical strength CAF personnel with System experience to have all System equipment deployed and ready to commence pre-flight operational checks within one (1) hour.

> Note: The operator crew only starts their one (1) hour set-up after the MSVS shelter is already positioned and levelled to within operating tolerance. The set-up and pack-up time limitations only apply to GCS components provided by the Contractor.

4.3 System Pack-Up

4.3.1 The SGCS installation design and included shipping procedures and containers shall enable a crew of four (4) typical size and typical strength CAF personnel with System experience to pack up and prepare the SGCS and MSVS shelter for transportation within two (2) hours.

5. SURVIVABILITY AND ENVIRONMENTAL SUSTAINABILITY

5.1 General

5.1.1 Survivability is understood to be a characteristic required to repeatedly ship System components between operating locations, launch the AV, conduct missions and recover the AV in condition that enables rapid inspection, repair as necessary, and return to service in order to fulfil the availability specification and clauses of the SPS. Survivability of the System as a whole is not defined or discussed hereafter.

5.2 Environmental Conditions

5.2.1 Weather.

5.2.1.1 The System shall be able to successfully launch, operate IAW the performance specification, and recover the AV, throughout the range of environmental conditions for which flight operations would be authorized from -20º to +45º Celsius (C) [(1)(2)] (-4º Fahrenheit (F) to +115º F)[(1)(2)] (excluding icing conditions).

> Notes: 1. Environmental conditions are deemed to be as described within STANAG 4370 for the range from C1 Intermediate Cold category to the A3 Hot dry and B3 Hot Humid categories, and Maritime M1 to M3 categories.
>
> 2. Any testing conducted IAW MIL-STD-810F or later may be used to support the environmental performance claim.

5.2.1.2 If the local conditions are within acceptable limits the System shall be capable of successfully launching the AV and transiting through up to five (5) km of adverse local conditions (excluding icing conditions) to reach a more suitable operational environment.

> Note: Identify the limits applicable to the system. For example, light rain up to ___ mm/hr, …

5.2.1.3 The System should be able to safely launch, operate IAW the performance specifications, and recover in ambient temperatures below -20º C / -4º F (down to -29°C / -20 °F) (excluding icing conditions).

5.2.2 Water and Moisture

5.2.2.1 Installation designs and packaging used for storage and shipping shall adequately protect components and assemblies from water damage. As a minimum, this includes protection from precipitation, from small quantities of water or liquids used during cleaning and handling of equipment, from exposure to high humidity, and from condensation occurring during changes to the ambient environment.

5.2.2.2 The System storage and shipping containers should already have completed water and moisture ingress protection testing IAW section 5.2.4.2 b, d or equivalent applicable standards.

5.2.3 Shock and Vibration

5.2.3.1 Any item which is attached to a shelter or a vehicle while the shelter or vehicle is in motion shall be mounted in a manner which protects the component from at least 3.0 g shocks applied to the shelter or vehicle for frequencies up to at least 200 Hz.

5.2.3.2 When packaged in shipping/storage containers, the System components shall as a minimum withstand 3.0 g shocks and vibrations up to 200 Hz applied to the shipping/storage container.

5.2.3.3 The System should already have completed appropriate shock and vibration testing for vehicle installation equipment and for rack mount equipment in an installation similar to the CAF GCS IAW sections 5.2.4.2 f, g, h, i, j, k, l and/or m as applicable.

5.2.4 Environmental Test Reports

5.2.4.1 If testing has been conducted, the test reports should be submitted in support of the technical airworthiness approval process. Canada will accept applicable certified reports for testing that complied with the appropriate sections of MIL-HDBK-810G. Previous testing under 810F or comparable standards is also deemed to be acceptable supporting documentation.

5.2.4.2 Where there is no applicable certified test report any applicable existing reports from operational trials or live operations should provide useful information for initial System airworthiness and suitability assessments. MIL-STD tests considered applicable include, but are not limited to, the following:

a. Temperature (high and low) - Method 501.4, (810.G) procedure I and II and 502.4 and procedure I and II respectively;

b. Humidity - Method 507.4, (810.G);

c. Dust Resistance - Method 510.4, procedure I (810.G) or IP 54 Standard; and

d. Water Resistance - Method 506.4, procedure III (810.G) or IP 54 Standard.

e. MIL-HDBK-810G Section 514.6, Procedure III (Transport), Category 20, for installed equipment.

f. MIL-STD 810G, Vibration, Method 514.6, Procedure 1 - General Vibration, Category 4, Secured Cargo on logistic/support vehicles similar to US M998, and M1009 fleets.

g. MIL-STD 810G, Vibration, Method 514.6, Procedure 2 - General Vibration, Category 5, Loose Cargo on logistic vehicles similar to US M36, Mk27, and M1083/M1084/M1085 fleets.

h. MIL-STD 810G, Vibration, Method 514.6, Procedure 1 - General Vibration, Category 20, and Cargo carried on operational wheeled vehicle, and on combat vehicles such as the Light Armoured Vehicle III (LAV III), Tactical Armoured Patrol Vehicle (TAPV) and Tracked Light Armoured Vehicle (TLAV).

i. MIL-STD 810G, Vibration, Method 514.6, Procedure 1 - General Vibration, Category 24, All Material, Minimum Integrity Test.

j. MIL-STD 810G, Shock, Method 516.6, Procedure 4 - Transit Drop;

k. MIL-HDBK-810G Section 514.6, Procedure III (Transport);

l. MIL-HDBK-810G Section 514.6, Procedure V (Crash Hazard); and

m. MIL-HDBK-810G Section 514.6, Procedure VI (Bench Handling.

Note: For the purpose of shipping/transportation, and provided adequate environmental protection is provided, the re-useable containers for smaller components of the System do not necessarily need to be rigid, hard shelled plastic or metal covered permanent containers.

6. MAINTAINABILITY

6.1 Self Test

6.1.1 The System shall include ground test and pre-flight diagnostic tools and design features that enable CAF operators to conduct troubleshooting/ fault diagnosis activities required to conduct scheduled operator and corrective maintenance.

6.1.2 The System shall include ground test and pre-flight built-in tests which at the minimum enable the operator to easily detect all common system and sub-system failures that could affect control and performance of the AV and control and performance of the payload(s).

6.2 Assembly Assistance Measures

6.2.1 In addition to the use of clear labelling practices, the assembly of the different System components and internal connectors shall be protected by means of indicators or design elements which prevent incorrect assembly. (i.e.: either mechanical, audible or visual indicators or a combination thereof.)

7. AIRWORTHINESS

7.1 Maturity And Reliability (Operational Hours)

7.1.1 To support the validity of System maturity associated performance reliability and maintainability data provided by the Contractor in support of System airworthiness assessment, the System shall have accumulated over 1,200 hours of military or commercial operational experience for each of the following components:

a. airframe;

b. avionics system;

c. data link; and:

d. propulsion system.

7.1.2 The System shall have completed at least one (1) successful ship based flight which included launch from a ship, conduct of a mission, and recovery aboard the ship.

8. AIR SUB-SYSTEM EFFECTIVENESS REQUIREMENTS

8.1 Endurance Profile

8.1.1 The AV system shall provide ISR service mission endurance, while operating the system avionics, transponder and the baseline payload, that meets or exceeds the following mission profile and mission conditions:

a. At launch Density Altitude of Sea Level standard temperature conditions;

b. No wind to assist launch or affect transit;

c. A requirement to clear an obstacle at the edge of a 100 m x 100 m launch site where the obstacle is 10 m higher than the ground level in the immediate vicinity of the launch site;

d. Post launch performance checks conducted by the launch team;

e. 50 km transit from the launch site to the mission operations area;

f. If applicable, handover from the launch team to the mission operators before, during, or after the transit to the mission operations area;

g. 12 hours continuous coverage of the area of interest using an economical cruise power setting, at an average operational altitude of 762 m/2,500 ft AGL;

h. 50 km transit from the mission operations area to the recovery team handover site;

i. If applicable, handover from the mission operators to the recovery team before, during, or after the transit to the recovery site;

j. Conduct one (1) missed approach/wave-off procedures, followed by a successful recovery/landing; and

k. Fuel reserves for at least an additional 60 minutes of loiter at minimum fuel consumption rate.

> Note: For the purposes of mission endurance fuel reserve, the minimum fuel consumption rate can be based on the aircraft weight at the end of the mission.

8.2 The AV shall be capable of maintaining a true airspeed of at least 115 km/h (62 knots (kt)) at a density altitude of 1,000 m/3280 ft for 75 minutes for tracking mobile targets.

8.3 Wind Conditions.

8.3.1 The System shall be able to launch and recover the AVs with at least 2.6 metres/second (m/s) (5 kt) tail wind. (Launches may be allowed with a reduced payload provided on-target mission endurance is at least eight (8) hours.)

8.3.2 The System shall be able to launch and recover the AVs with at least a 5.2 m/s (10 kt) cross wind. (When allowed by the mission schedule the launches may be accomplished with a reduced payload provided on-target mission endurance is at least eight (8) hours.)

8.3.3 The System shall be able to launch and recover into steady winds of at least 12.9 m/s (25 kt).

8.3.4 The System should be able to launch and recover into wind gusts up to 20.6 m/s (40 kt) when the average steady state wind does not exceed 12.9 m/s (25 kts).

8.4 Restricted Operating Site Conditions.

8.4.1 With the fuel and payload configuration required to meet the mission profile at section 8.1.1 the System shall be capable of launching the AV from an area 100 m x 100 m surrounded by obstacles up to 10 m above the ground level in the immediate vicinity of the launch site.

8.4.2 With the baseline payload and with a fuel reserve for a minimum of one (1) hour of flight the System shall be capable of recovering the AV in an area 100 m x 100 m surrounded by obstacles 10 m higher than the ground level in the immediate vicinity of the recovery site.

8.4.3 The System shall be able to launch and recover from Royal Canadian Navy (RCN) Halifax Class Frigates (flight deck of approximately 22 m length and 13.5 m width), and larger ships. The AV is not to be launched and/or recovered while the ship's helicopter is on the flight deck. Refer to Halifax Class level 1 drawing provided for flight deck dimensions in appendix 1 to annex B.

Note:	Engineering tasks and certification work would be required under a separate task not included in the original System acquisition contract before any system could be placed on a ship.

8.4.4 With the maximum fuel and payload configuration the AV should be capable of being launched from a 50 m x 50 m area surrounded by obstacles 10 m higher than the ground level in the immediate vicinity of the launch site.

8.4.5 The AV should be capable of being recovered in an area 50 m x 50 m surrounded by obstacles 10 m higher than the ground level in the immediate vicinity of the recovery site.

8.5 Lost Link Recovery

8.5.1 The System shall provide a reliable lost link recovery capability, programmable by the operator, which allows the AV to return to an operator specified point if the data link is lost.

8.5.1.1 The System information shall include enough information to enable the operators to predict the manoeuvres that the AV would perform to regain the data link

8.5.1.2 The System information shall include enough information to enable the operators to predict the manoeuvres that the AV would perform to autonomously recover the AV if the data link is not re-established.

8.5.2 The System lost link recovery capability shall not command an AV to climb above a ceiling altitude set by the GCS.

8.5.3 The AV shall fly autonomously without the requirement for two-way data link communications.

8.6 Engine.

8.6.1 Any engine powered AV shall be powered by a Heavy Fuel Engine (HFE) that as a minimum shall operate IAW the SPS with F37, JP5 and JP8 fuel.

8.6.2 The HFE shall have accumulated a minimum of 200 hours of combined ground testing, flight testing, and/or operational service.

8.6.3 The HFE should have accumulated a minimum of 3,000 hours of flight testing and/or operational service.

8.7 Payload

8.7.1 The baseline payload stabilized, steerable package for all missions shall provide at least the following:

a. colour Electro-Optical (EO) daylight video;

b. Infra-red (IR) video;

c. Generation III Night Vision Goggle (NVG) compatible laser pointer/illuminator capable of being used to indicate objects or areas of interest to observers with appropriate Night Vision equipment:

(1) The laser pointer/illuminator performance shall be such that Generation III NVG equipped personnel shall be able to detect the indicated object when illuminated by the AV operating at a 1,000 m/3,280 ft slant range from the item of interest, and

(2) Incorporation of appropriate laser safety measures and provision of applicable laser safety documentation is mandatory for the laser pointer. The integration of any such laser shall be done in such a way that it is eye-safe during ground testing IAW CFTO C-02-040-002/TS-001 (entitled Laser Safety), C-02-040-002/AA-000 (entitled Evaluation and Control of Laser Hazards) and the American National Standard for Safe Use of Lasers (ANSI Z136 latest edition). It shall also include adequate safety mechanisms to make a discharge from a stationary AV during ground testing extremely unlikely, and to prevent injury in the event of an accidental discharge; and

Note: Performance will be assessed by desktop evaluation calculations followed by in-flight performance verification during System evaluation/acceptance testing

d. Laser Range Finder (LRF) (installed in the stabilized optical payload) which registers ranges to at least 3,000 m/10,000 ft. The LRF operation procedures shall incorporate appropriate laser safety measures IAW the applicable laser safety documentation. The control procedures shall be implemented in such a way that it is eye-safe during ground testing.

8.7.2 In addition to the baseline payload the AV shall have the capability to concurrently support additional payloads. The payload bay shall support as a minimum a weight of 2.3 kg/ 5 pounds, available power of at least 100 Watts for the additional payloads, and a minimum volume of 13.1 litres/800 in^3/ 0.46 ft^3.

8.7.2.1 While operating with a fuel load that meets the endurance performance requirements defined in section 8.1.1, the AV should have the capability to carry more than 2.3 kg/5 pound) of additional payloads, up to a 20 kg/44 lb additional payload weight.

8.7.2.2 While operating the baseline EO/IR payload and all standard avionics and transponders the AV should have the capability to provide more than the 100 watts to additional payloads, up to 400 watts of additional power, for the operation of additional payloads beyond the baseline payload.

8.7.2.3 The AV should have more than the minimum 13.1 l/800 in^3/ 0.46 ft^3 of additional payload volume capacity, up to 50.1 l / 1.77 $ft^3$of additional useable volume available for additional standard format radio relay, Electronic Support Measure (ESM), Synthetic Aperture Radar (SAR) and other potential payloads.

8.7.2.4 The System or its predecessors in the SUAS class should have already operated with a radio relay payload such as the MicroLight RT-1922.

8.7.2.5 The System or its predecessors in the SUAS class should have already operated with an ESM payload.

8.7.2.6 The System or its predecessors in the SUAS class should have already operated with a SAR payload.

8.7.3 Camera Zoom.

8.7.3.1 The EO camera shall have at least a 10:1 optical zoom capability.

8.7.3.2 The IR camera shall have at least a 4:1 optical zoom capability.

8.7.3.3 The EO camera should have up to a 20:1 optical zoom capability. (I.e.: From at least a 25 degree wide angle field of view to a less than 1.6 degree narrow field of view).

8.7.3.4 The IR camera should have up to a 14:1 optical zoom capability which covers at least a 25 degree wide angle field of view to no more than a two (2) degree narrow field of view).

8.7.4 The System shall be capable of maintaining stationary targets and targets manoeuvring at ground speeds of up to 22.2 m/s (80 km/h) in the optical payload FOV for extended periods of more than five (5) minutes. This shall be achieved at image resolution and target ranges that enable operators to identify targets and to determine the apparent intent/actions of personnel being observed.

8.7.5 Automatic Identification System (AIS)

8.7.5.1 The AV shall be equipped with an AIS capability which detects and relays ship identification and similar information to the GCS.

8.8 Visual Detectability

8.8.1 The AV shall have a low visibility colour scheme suitable for typical daylight operations.

8.8.2 The AV shall be equipped with an IR strobe visible to generation III NVG to assist other airspace users to locate the AV during night operations, and to assist recovery crew with locating the AV during recovery.

a. The IR strobe light fitted shall be controllable from the GCS.

b. The IR strobe light fitted shall not emit light visible to the unaided eye.

8.8.3 The AV shall be equipped with a strobe visible to the unaided eye to assist other airspace users to locate the AV during day and night operations. (Visible to 5 km at night in Visual Meteorological Conditions (VMC) with no haze or atmospheric obscurants present.)

8.8.4 The visible strobe light fitted shall be controllable from the GCS.

8.9 Aural Detectability

8.9.1 For the conduct of covert reconnaissance and surveillance missions observers on the ground should usually not hear the AV at a slant range of 1,000 m/3,280 ft.

8.10 Interoperability

8.10.1 The System should be operated by CDL System Ltd VCS 4586 UAV control system.

8.10.2 Within 24 months of Contract award the System shall be tested and certified capable of being operated by CDL System Ltd VCS 4586 UAV control system. (Canada will provide to the Contractor, as Government Furnished Information (GFI), the CDL Systems VCS 4586 development software.)

8.10.3 Within 24 months of Contract award the System shall be able to hand over control of an aircraft to, and receive control of an aircraft from any CAF GCS that is STANAG 4586, edition 2 compliant and is operating with an appropriate Vehicle Specific Module (VSM) and data link, and if applicable, the appropriate landing/recovery assets.

8.11 Navigation and Position Location

8.11.1 The System shall use the Global Positioning Satellite (GPS) system for primary navigation and positional information.

8.12 Selective Availability/ Anti-Spoofing Module (SAASM) GPS.

8.12.1 The AV should be upgradeable to use a GPS with SAASM or better capability.

8.13 Transponder

8.13.1 The AV shall be equipped with a transponder. At the minimum the transponder shall include all identification and location capabilities provided by a Mode 3C transponder.

8.13.2 The AV should be equipped with a Mode 4 or Mode S transponder.

8.13.3 The AV should be upgradable to use the Automatic dependent surveillance-broadcast (ADS-B) transponder system.

9. GROUND SEGMENT

9.1 General

9.1.1 There shall be two (2) variants of the GCS;

a. the SGCS installed in an MSVS shelter, suitable for longer range operations from fixed MOB sites. There would normally be a minimum of two (2) or a maximum of three (3) SGCS sets at any operating site; and

b. the vehicle installation version, or Mobile GCS (MGCS), capable of highly mobile limited range operations from armoured and administrative vehicles. The MGCS shall

be able to operate using 120-240 VAC 50-60 hz power, and from vehicle 24-32 Volt Direct Current (VDC) vehicle power supplies according to MIL-STD 1275 D.

9.1.2 The Contractor SGCS and MGCS system designs, equipment, and installations shall include all computers, transmitters, receivers, cables, data link components, power supplies and necessary related components and software required for the conduct of FUAS operations with the exception of the Government-Supplied Material (GSM) software suites, displays, and installation hardware.

9.1.3 MSVS Shelter

9.1.3.1 Canada has selected a 6 m (20 ft) International Standards Organization (ISO) format variant of the MSVS shelter to host the SGCS version of the GCS. The MSVS shelter includes an equipment room with heating, ventilation and air conditioning equipment and a 60 hertz (Hz) 110/220 Volt alternating current (VAC) electrical power generator, and a 10 kilo Volt Amp (KVA) Uninterruptible Power Supply (UPS). The shelter also includes a fibre-optic network and fibre-optic switches to support the communications requirements of the Contractor installed System computers.

9.1.3.1.1 All Contractor installed components of the SGCS shall be installed within the MSVS shelter office/work space of approximately 4.5 m length, 2.33 m width, and 2.38 m height. There is a 16 Rack Unit space (711 mm/28 inches) available in the 19 inch rack for the installation of Contractor equipment.

Note: The Dell R7610 with dual NVIDIA Quadro K4000 video cards installed in the DND equipped portion of the rack is allocated for the future simulator capability, but if requested it could be made available to the Contractor for its simulator platform.

9.1.3.1.2 In addition to the installed equipment and applicable shipping cases all SGCS external antennas, associated equipment and cabling shall be securely stored inside the shelter when the shelter is packed and configured for being shipped between operational locations.

9.1.3.1.3 Where applicable, GSM installation hardware shall be used to install the Contractor supplied GCS equipment.

Note: Canada intends to use established MSVS shelter program resources for the SGCS equipment installation configuration, work station installations, and pre-existing CAF communication equipment installations. Refer to MSVS shelter conceptual drawing provided for overall dimensions in appendix 2 to annex B.

9.2 Operational Safety

9.2.1 Terrain Awareness and Warning System (TAWS)

9.2.1.1 The System shall be equipped with a TAWS. The TAWS should provide visual and audible alarms in the event that the AV violates programmed terrain clearance parameters as a consequence of any instruction issued to the AV by the AV operator, or any situation arising that would result in the AV failing to maintain safe AV-ground separation.

I.E.:	Possible example; a routine that periodically compares AV altitude and position with Digital Terrain Elevation Data (DTED) information and map information related to towers and navigation hazards, and warns the operators if the AV is likely to encounter terrain or obstacles, or to pass within a preset minimum clearance range/altitude in the next two (2) minutes.

9.2.2 Danger/no-fly zones

9.2.2.1 The System shall enable the operator to establish operator specified map positional related Danger/No-Fly zones.

9.2.2.2 The System shall provide the operator with audible and visible warnings if the aircraft flight plan or operator actions would result in the aircraft entering a Danger/No Fly Zone.

9.3 Target tracking

9.3.1 The System shall enable the CAF GCS operators to have the capability to automatically track objects with the camera as the AV independently moves into the correct location.

9.3.2 The System shall be able to automatically track an object moving at ground speeds of up to 80 km/h while the AV is flying into a 30 km/h headwind.

9.3.3 If the capability to automatically track a moving target is not a built in or programmed function conducted automatically on board of the AV the System shall provide a ground based target tracking capability that provides the appropriate command feedback to the AVs. This capability shall be provided for each of the eight (8) shelters based flight control stations, and each of the eight (8) vehicle based MGCS sets.

9.4 Flight Data and Mission Recording

9.4.1 The System shall include a flight data recording capability which automatically saves the flight data.

9.4.2 The flight data recorder interface design shall enable the CAF operators to re-play the flight data for data analysis purposes, and to export the data in its native format. If the flight recorder data is not readable by a standard CAF workstation the Contractor shall provide one (1) copy of any software required to play back and analyse the data in a CAF laboratory environment.

9.4.3 Mission Data Removal. In order to quarantine original data for investigation purposes the System shall have removable hard drives that enable the Mission Commanders or System Operators to remove all recordings of imagery, telemetry and metadata without the use of any tool.

9.4.4 Mission Data Storage Capacity. The System shall have the available capacity to record and store a minimum of 100 hours of flight metadata.

9.5 AV Operation

9.5.1 The System shall enable the AV Operator to exercise real time control and monitoring of the AV in flight.

9.5.2 The System shall provide the operator station display with AV status monitoring information. (I.E.: Items critical to AV performance such as fuel state, engine, battery, etc.)

9.5.3 The System shall provide the operator station with operator tools that include:

a. Automatic operator alerts for emergencies; and

b. Electronic checklists and AV status monitoring.

9.5.4 The operator station should have operator tools that provide Emergency Troubleshooting Checklists on the graphic user interface.

> Note: The operator should be prompted to choose between a set of troubleshooting options which automatically execute once the operator confirms the chosen troubleshooting option.

9.6 Target Location Accuracy

9.6.1 The geo-location position error for an AV operating at up to 30 m/s (58.3 Kts) shall not exceed 10m Spherical Error Probable (SEP) from the position the AVs on board GPS is reporting at that time.

> I.E.: At any given moment the AV GPS indicates a specific position in space. The cumulative errors induced by the time lag between the instant that the AV transmits its indicated position and when the metadata available at the GCS indicates the position shall not induce an error in excess of 10 m between the AVs current GPS position and the position recorded by the System on receipt of the metadata.

9.6.2 Target geo-location position error shall not exceed 50m Circular Error Probable (CEP) while the AV is 762 m/2,500 ft above ground and at a slant range of 1,000 m/3,280 ft from the target site.

9.6.3 Target geo-location position standards should be met while the AV is making a single pass past the target area or a single orbit around the target area, with an observation period of no more than 30 seconds.

9.6.4 Target geo-location position error should be less than 50 m CEP under the conditions of section 9.6.2.

9.7 Image Quality

9.7.1 The imagery as viewed in a GCS display window that matches the applicable camera resolution will be rated using the National Image Interpretability Rating Scale (NIIRS) ratings as defined by the NIIRS at http://www.fas.org/irp/imint/niirs.htm).

9.7.2 The imagery shall be rated both with the aircraft passing directly overhead of the target with the AV operating at an altitude of 762 m/2,500 ft AGL, and when passing at a slant range of up to 1,000 m/3,280 ft. (The imagery will be assessed as achieving up to the highest resolution rating achieved between the overhead pass and the pass at a slant angle.)

9.7.3 Under the conditions at section 9.7.2, when using the EO payload, the GCS display shall demonstrate NIIRS 7 quality imagery.

9.7.4 Under the conditions at section 9.7.2, when using the IR payload, the GCS display shall demonstrate NIIRS 7 quality imagery.

9.7.5 Under the conditions at section 9.7.2, when using the EO payload, the GCS display should demonstrate better than NIIRS 7 quality imagery.

9.7.6 Under the conditions at section 9.7.2, when using the IR payload, the GCS display should demonstrate better than NIIRS 7 quality imagery.

9.8 Simulator Training Support

9.8.1 For the shelter installed GCS the Contractor shall provide a medium fidelity level simulation capability installed within the allocated rack installation space.

9.8.1.1 There shall be an easy and reliable physical process for switching between the simulator and the control of live aircraft. This process shall require a physical change of cables or switches that are not accessible from the operator work station. There shall be no possibility that the operator can accidentally disconnect from an aircraft and connect to the simulator while an aircraft is in flight.

9.8.2 The simulation capability shall provide operators a simulated environment of a selected operational area for training and pre-mission rehearsal purposes, and for practicing emergency drills and System procedures, including EO and IR sensor operations.

9.8.3 If the delivered operating system is not VCS-4586 the simulation capability is subject to replacement when the VCS-4586 operating system capability is introduced.

9.8.4 The System should include an operator selection/screening capability to assist CAF units with pre-screening personnel for selection as System operator trainees.

10. ISR PRODUCTS FORMAT

10.1 The System shall have telemetry data from the AV synchronized to the video in a format that enables the CAF GCS to generate imagery IAW STANAG 4609 edition 3 UAS Local Data Set Table 2 format.

10.2 The metadata shall also be accessible for technical investigation purposes via the GCS Local Area Network (LAN) interface or as an extracted data file.

10.3 The metadata time code shall be derived from GPS time.

10.4 The System should have the capability to generate mosaic, geo-rectified images and maps from the video imagery as it is accumulated and stored.

11. COMMUNICATIONS

11.1 Any Information Technology (IT) equipment provided with the System shall fully conform to current Ethernet Protocol Standards and USB2, USB 3 standards, enabling the passage and receipt of data via readily available compatible non-proprietary equipment. Applicable Institute of Electrical and Electronic Engineers (IEEE) standards may also be included.

11.2 Connections to the fibre-optic Local Area Network within the SGCS shall use standard commercial Mechanical Transfer Registered Jack (MT-RJ) connectors.

12. DATA LINK

12.1 Encryption

12.1.1 The airborne telemetry data link shall employ AES 256 encryption to provide secure communication over the data and command and control channels to prevent unauthorized viewing of or interference with the command and control data, and the imagery and metadata/telemetry information.

12.2 Data Link Line Of Sight (LOS) Range

12.2.1 While using the SGCS the System shall be capable of operating to a Visual Line-of-Sight (VLOS) range of at least 100 km.

12.2.2 Up to the SGCS 100 km range, the System shall be able to control the AV and receive uninterrupted telemetry, control, unpixelated imagery, and metadata information (90% of the time over a 5 minutes period) IAW the contracted System Performance Specifications for as long as the SUAV is within the VLOS.

12.2.3 The SGCS should be capable of operating in IAW the specification in 12.2.2 to a VLOS range beyond 100 km. (Up to 185 km/ 100 nautical miles).

12.2.4 The MGCS shall use a ROVER 6 system for the data link to the aircraft. The ROVER 6 system shall support command and control (STANAG 4586 Level Of Interoperability (LOI) 2, LOI 3 and LOI 4), video and metadata in C and/or L and/or S bands. (The ROVER 6 equipment will be provided by Canada.)

12.3 Remote Video Terminal Compatibility

12.3.1 The SUAV data link shall be compatible with the (ROVER 5i and ROVER 6) CAF Remote Video Terminal to correctly display the video and meta data information, including as a minimum the Time Stamp and the Frame Center Latitude and Longitude.

12.4 Directional Antenna Control

12.4.1 The ground data link antennae shall automatically track the AV.

12.5 Frequency Management

12.5.1 The System data links shall use one or more of the L, S or C Bands.

12.5.2 Canadian Regulations

12.5.2.1 All Radio Frequency equipment used in the SUAS shall comply with the Radio-Communication Act. (See http://laws.justice.gc.ca).

12.5.2.2 All Radio Frequency equipment used in the System shall comply with the Canadian Radio-Communication Regulations.

12.5.3 Frequency Selection

12.5.3.1 The System shall be capable of frequency selection to allow for regulatory requirements related to frequency allocation in Canada and in NATO coalition operational environments.

12.5.3.2 The System shall be capable of frequency selection to allow multiple AV operations in the same airspace without electronic interference between the AVs and/or interference between the GCS sets controlling the AVs.

12.5.3.3 During pre-launch mission preparations the operator shall be able to change the specific frequencies used within a frequency band without physically changing components.

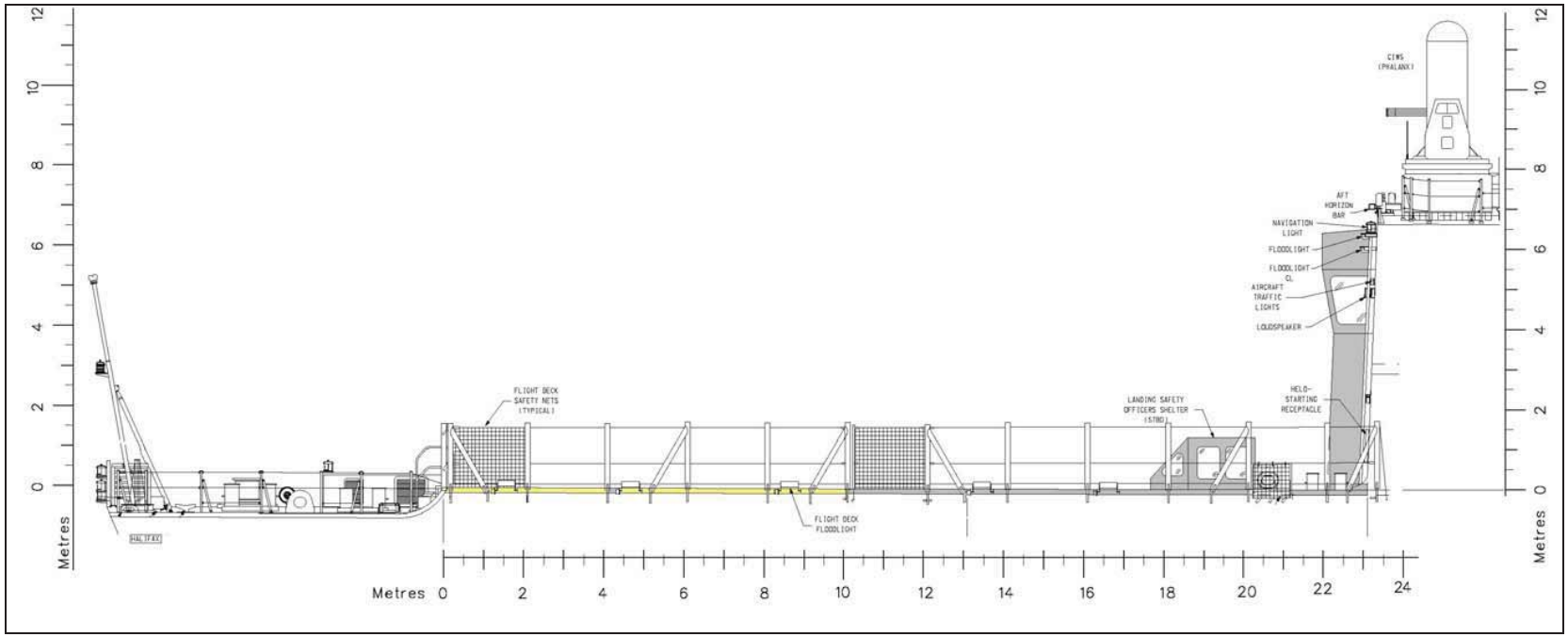
12.5.3.4 In Canada the System shall operate using frequencies licensed to DND by Industry Canada for UAV operations in Canada.

12.5.3.5 For deployed operations outside of Canadian territory the System shall have the capability to operate using frequencies licensed to NATO for the specific deployment locations.

APPENDIX 1 to ANNEX B

Views of the flight deck of the Halifax Class Ships.

Halifax Class Ship Flight Deck Side View



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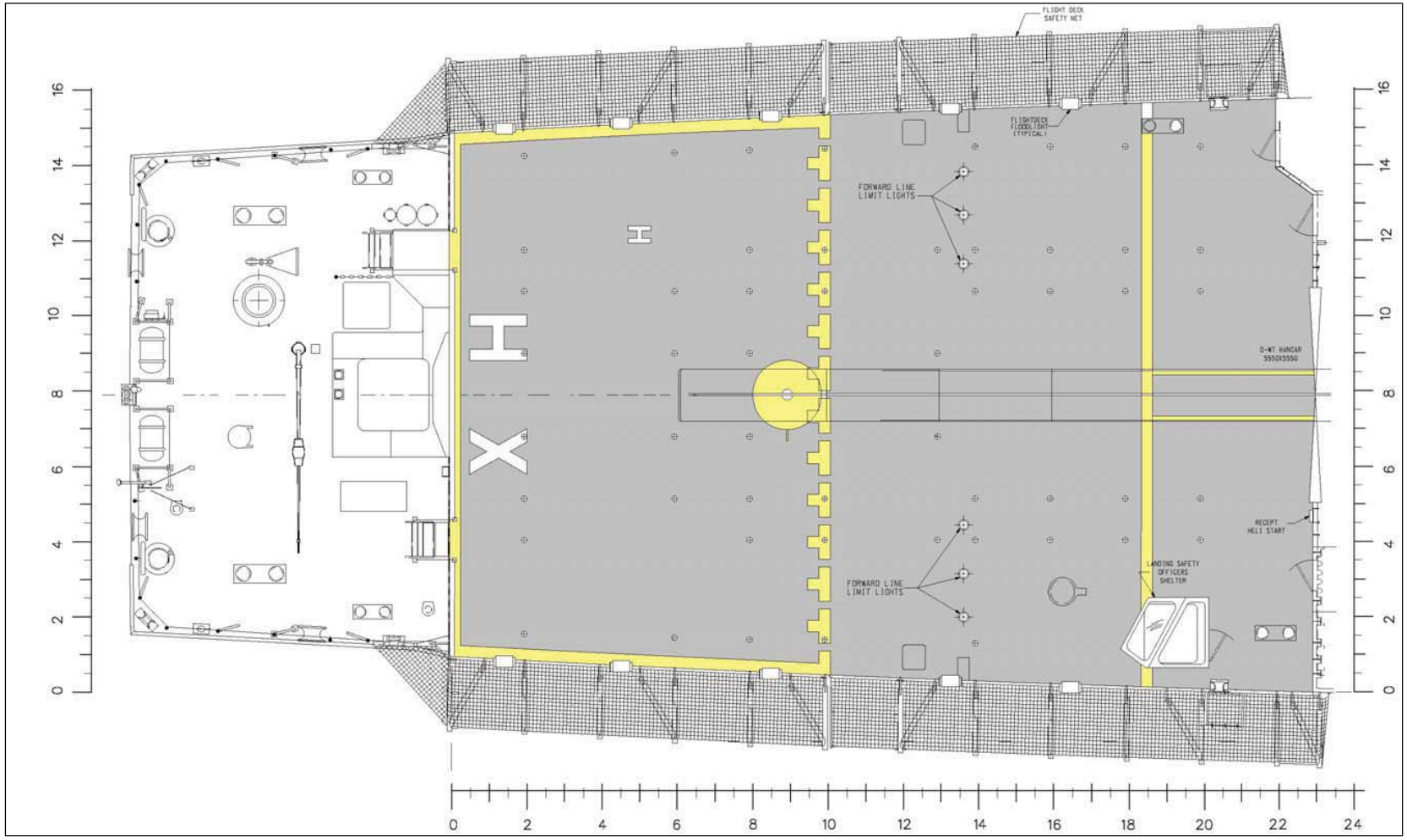
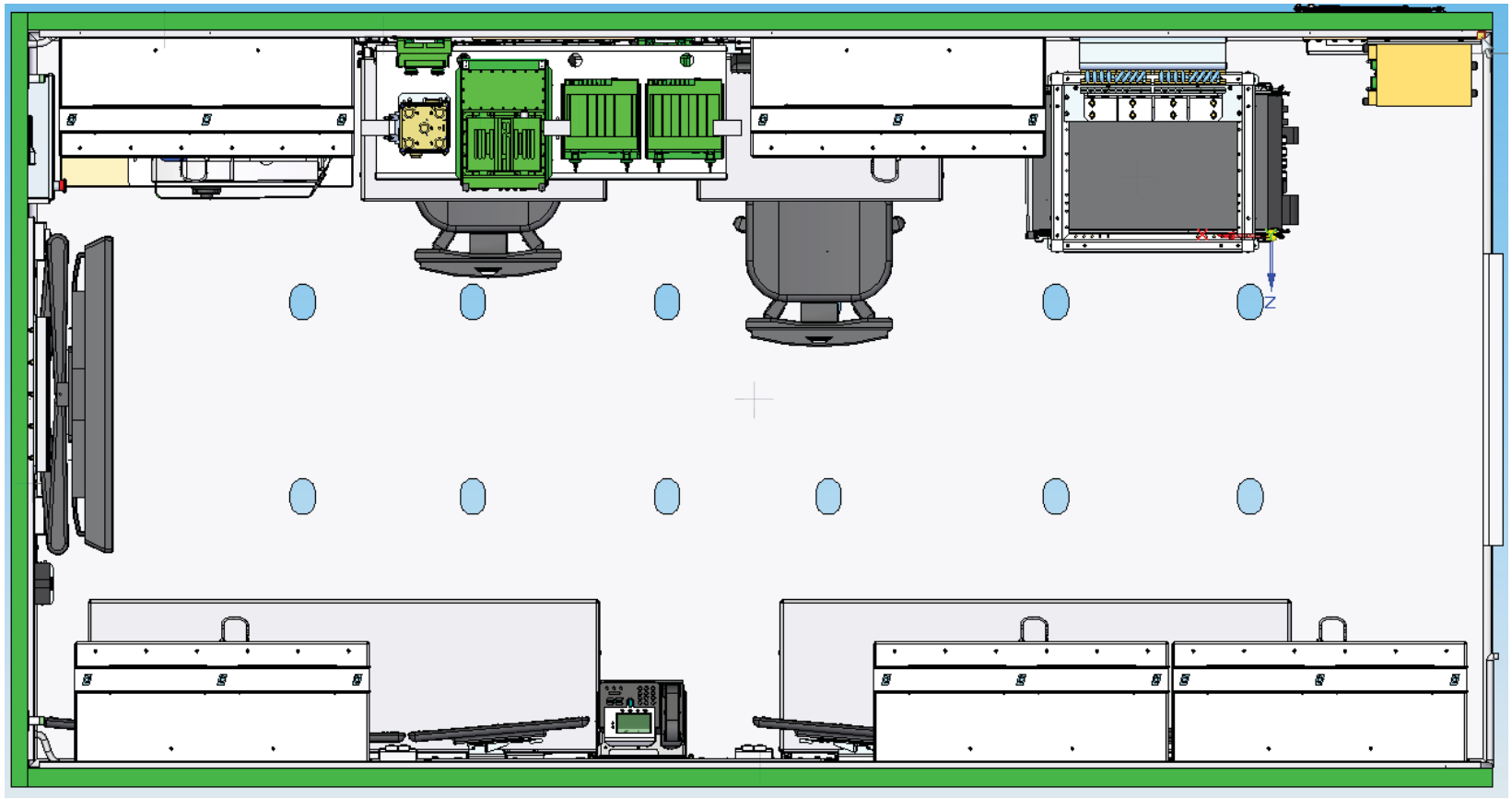
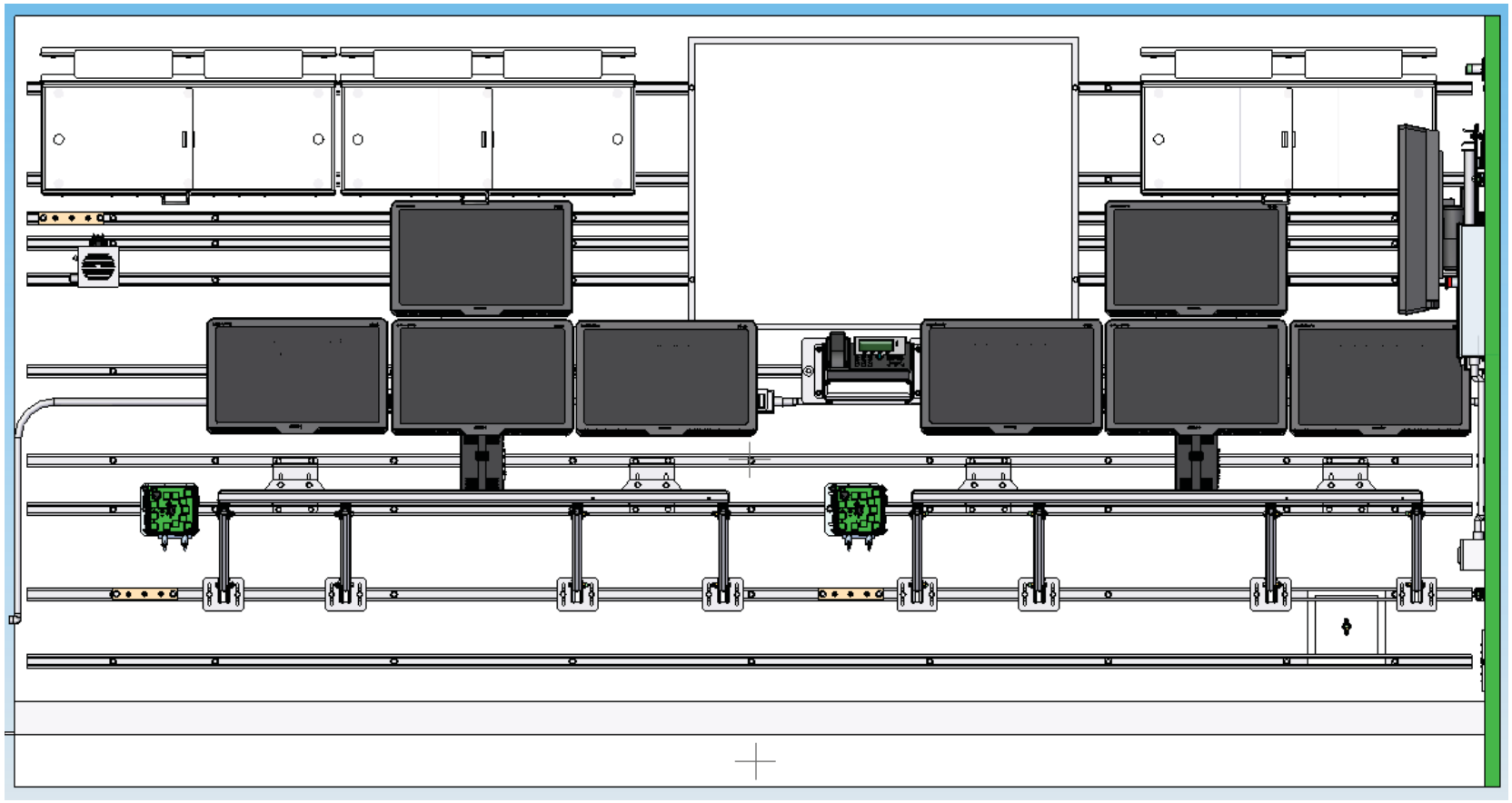
Halifax Class Ship Flight Deck Top View.

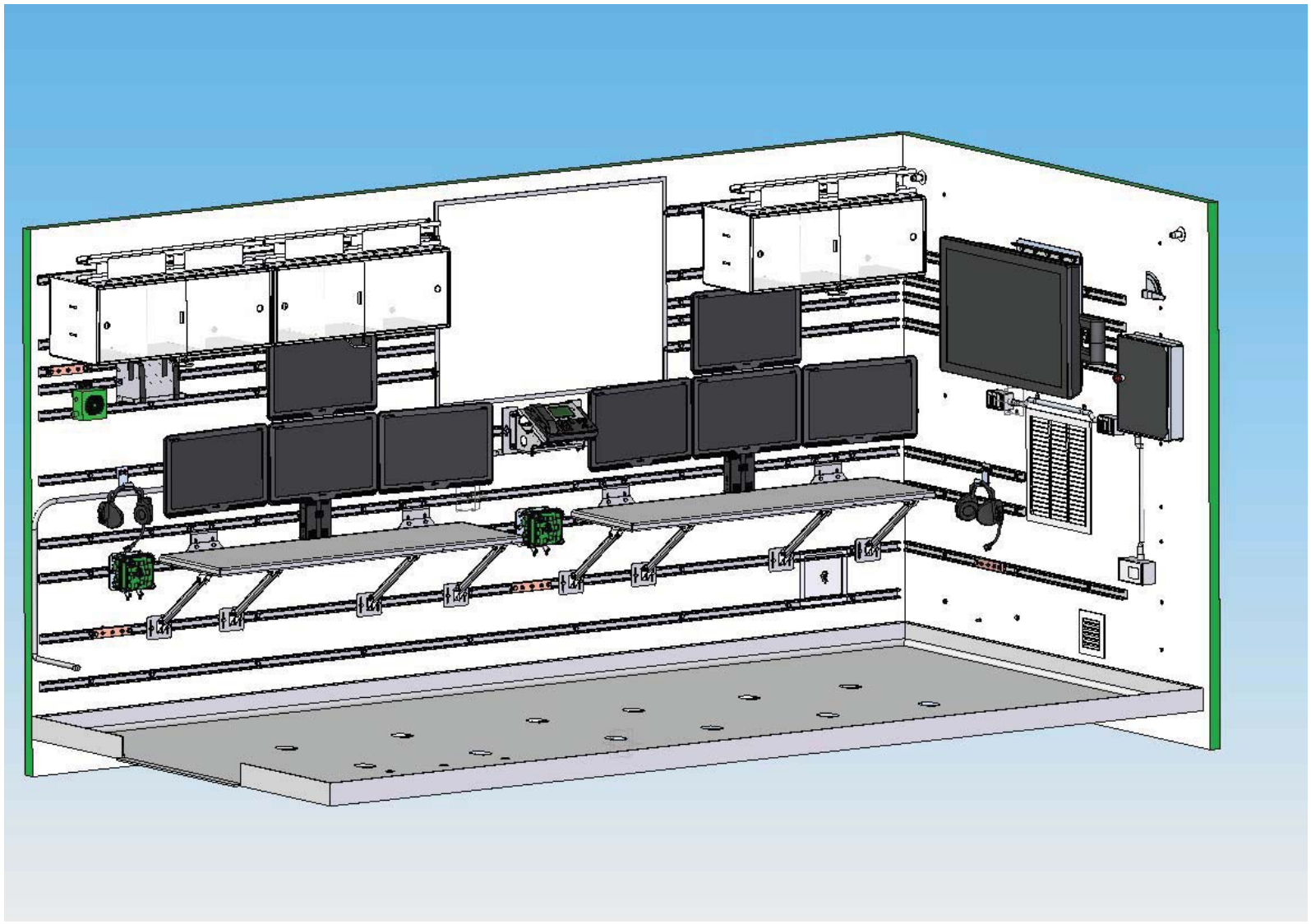


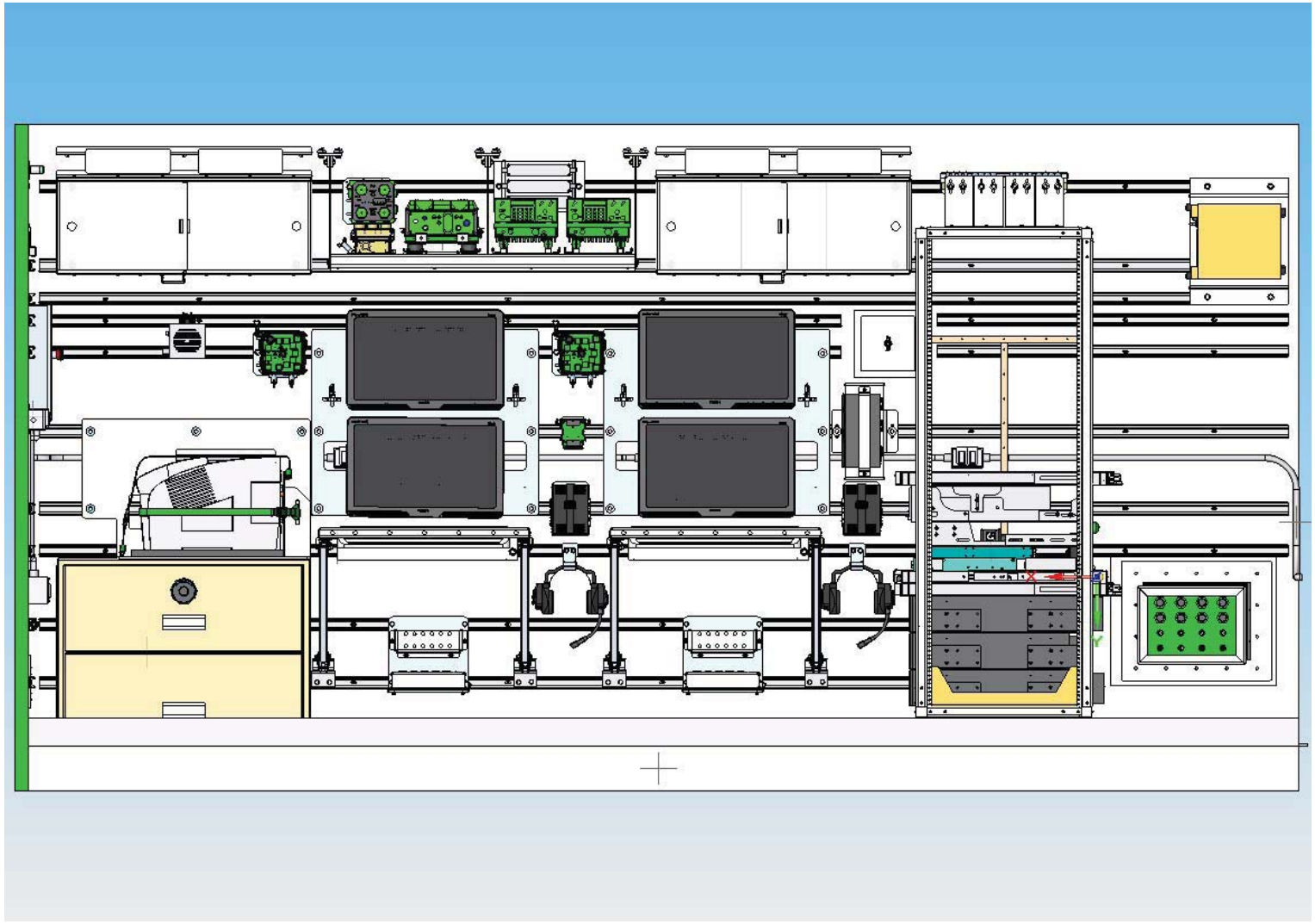
Note: Dimensions in Metres are approximate.

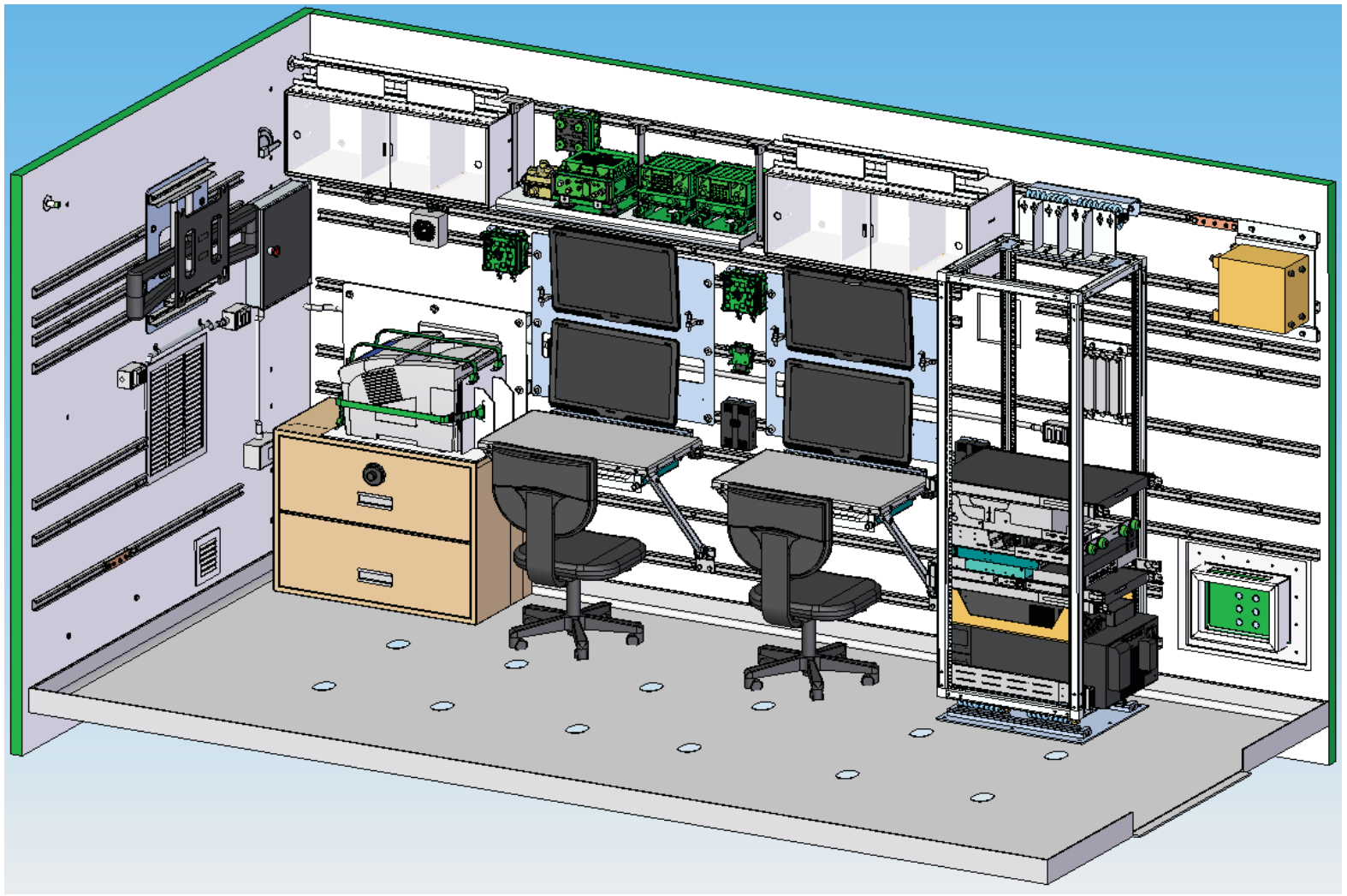
APPENDIX 2 to ANNEX B

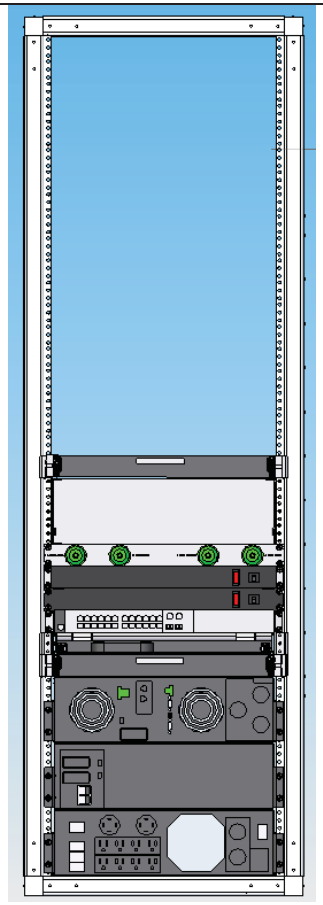
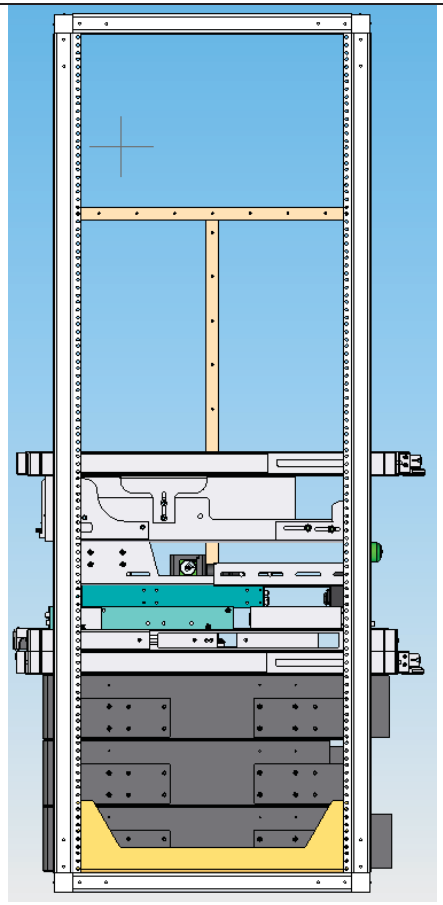
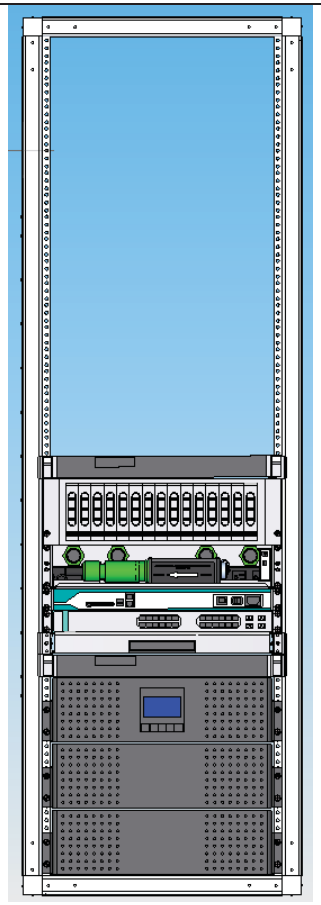






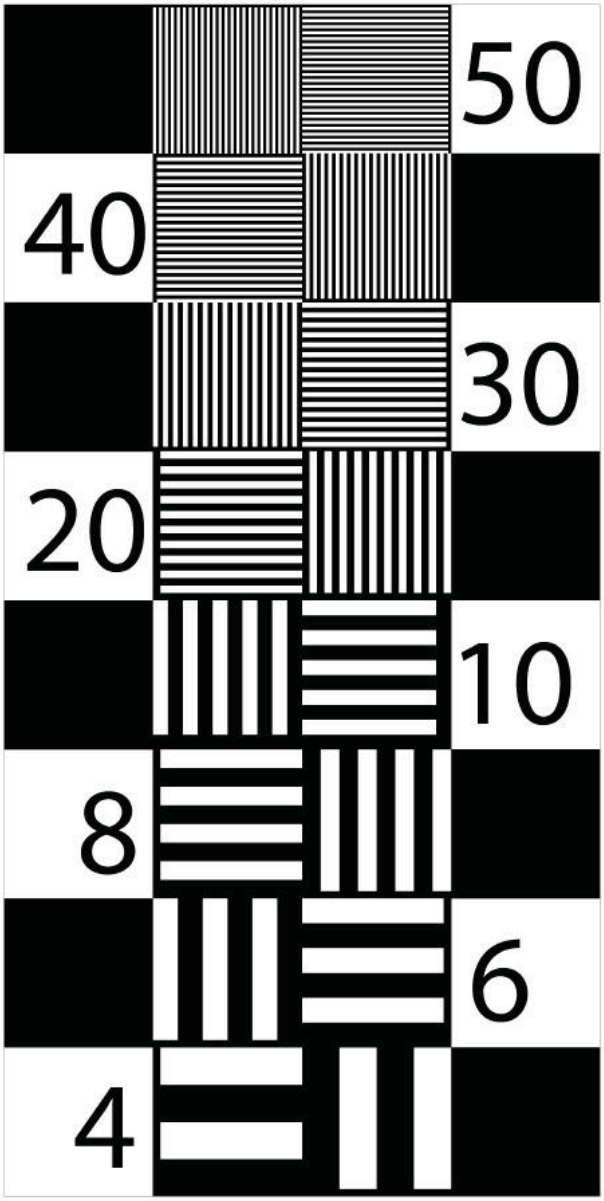




REAR VIEW / VUE ARRIÈRE	LEFT SIDE VIEW / VUE DU CÔTÉ GAUCHE	FRONT VIEW / VUE DE FACE
		
The rack is installed with the right side against the shelter wall. The front and back are exposed for ease of access to the equipment.	Le support est installé avec le côté droit contre le mur de l'abri. L'avant et l'Arrière sont exposés pour la facilité de l'accès à l'équipement.	

APPENDIX 1 to ANNEX B

View of the DND owned target used for evaluating NIIRS rating. The target is 4 x 8 [m] and will be placed on the ground to allow the aircraft optics to capture imagery data as described in Annex B, SPS section 9.7.2.



ANNEX C

CANADIAN ARMY
SMALL UNMANNED AIRCRAFT SYSTEM ACQUISITION (SUAS-A)

STATEMENT OF WORK (SOW)

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1 GENERAL

1.1 Purpose

1.1.1 This Statement of Work (SOW) describes the work required to deliver and sustain a Small Unmanned Aircraft System (SUAS) capability. A complete suite of equipment and software required to establish and sustain operations at one site is henceforth referred to as a "System".

1.2 Overview

1.2.1 The System is a component of a Family of Unmanned Aircraft Systems (FUAS) providing Intelligence Surveillance and Reconnaissance (ISR) and convoy escort capabilities for Canadian Army and joint forces training and operations anywhere that the Canadian Armed Forces (CAF) are deployed by Canada.

1.2.2 The Small Unmanned Air Vehicle (SUAV) aircraft used in the System is the platform of choice for the conduct of direct support ISR missions that require persistent, high quality Electro-Optic (EO) and Infrared (IR) video and other sensor and data services support.

1.3 Scope

1.3.1 The work includes the delivery of equipment and the support required to establish and sustain an SUAS capability that meets or exceeds the requirements of the Annex B System Performance Specification (SPS).

1.3.2 When tasked to provide support the System supplier will be required to provide Integrated Logistic Support (ILS) that enables the System to meet the availability requirements. Systems and components owned by Canada will be delivered and tracked through the Canadian Forces Supply System (CFSS). Contractor owned spare parts managed outside of the CFSS by the Contractor, and additional Contractor repair services will also be provided under support tasks.

1.3.3 In addition to items and services described in this SOW, Canada may need to improve System capabilities by implementing additional payload, sensor and data service capabilities during the service life of the System.

> Note: In general, any support beyond the initial System deliveries, training, and associated documentation support, would be tasked and delivered through a separate In-Service Support contract.

1.4 Outcomes

1.4.1 The required corresponding outcomes are:

a. Products and Services compliant with Canadian Laws and regulations;
b. Delivery of airworthiness application supporting documentation;
c. Delivery of the required drawings and associated lists and cataloguing information required for equipment delivery to Canada;
d. Delivery of operation and maintenance manuals;

e. Delivery of the Systems and associated spare parts to sustain operations at two (2) sites in Canada;

f. Development and delivery of the required training solution;

g. Delivery of Field Service Representative support to training and introducing the SUAS into service;

h. Development and delivery of new or proof of satisfactory current management plans for this Acquisition Contract and the related follow-on In-Service Support Contract, including:

(1) Project Management Plan;

(2) Integrated Logistic Support Plan;

(3) Maintenance Plan;

(4) Acceptance Test Plan;

(5) Training Plan; and

(6) Airworthiness Supporting Documentation Management Plan;

i. Development and delivery of the in-service support solution to be implemented under the SUAS-S Contract.

1.5 Electronic Document Format

1.5.1 With the exception of ".pdf" files any electronic format document deliverables will be deemed to be non-compliant and will not be accepted as Contract deliverables unless a typical Department of National Defence (DND) workstation can import, read, edit, print and save the document.

1.5.2 Pdf files are only acceptable for those documents that the Technical Authority (TA) has no requirement to insert comments, to amend the text or data, to extract text or data, or to use the content of the document for other action.

1.5.3 The current DND workstation software suite may use the following applications:

a. Microsoft Access 2003 for database files (*.mdb);

b. Microsoft Excel 2003 for spreadsheet files (*.xls);

c. Microsoft Project 2003 for project tracking/management files (*.mpp) (This is only available to selected DND workstations.);

d. Microsoft PowerPoint 2003 for presentation files (*.ppt);

e. Microsoft Word 2003 for document files (*.doc); and

f. Adobe Acrobat 9.0 for Portable Document Format (pdf) files (*.pdf).

1.6 Mandatory Criteria Definition.

1.6.1 A Mandatory requirement as identified by "shall", "must" or "will" indicates that the Contractor is required to complete and deliver the work as stipulated in the applicable section of the SOW. A Contractor is only deemed to be in compliance with the Contract requirements while they are meeting all mandatory criteria.

1.7 Concept of Operations (CONOPS)

1.7.1 The CAF will own and operate the Systems delivered in accordance with (IAW) Annex B (SPS) specification. This will provide the CAF with a small quantity of North Atlantic Treaty Organization (NATO) STANdardization AGreement (STANAG) 4586 compliant SUAV aircraft and associated equipment that provides Canada with an immediate SUAV deployment and short term sustainment capability.

1.7.2 CAF personnel will conduct operator and CAF technician unit level maintenance for the CAF owned SUAS equipment.

1.7.3 The CAF operators will need to maintain their skills and currency certification for the launch, recovery and maintenance of the CAF owned SUAS. Therefore, when tasked, the Contractor will supervise and support CAF operators conducting launch, recovery and maintenance procedures.

> Note: Air Vehicle (AV) corrective maintenance tasks for CAF owned AVs will be performed under the supervision of a Contractor representative or a senior maintainer qualified by the Contractor. Only the Contractor representative and the qualified senior maintainers will have the authority to sign off the release to service certification for AVs following corrective maintenance procedures involving changing or adjusting AV components.

1.7.4 The SUAS Contractor will perform Repair and Overhaul work beyond the skills or beyond the duties of the applicable CAF personnel.

1.7.5 SUAS Unit Operations

1.7.5.1 An SUAS Troop, conducting System operations from a Main Operating Base (MOB) site or ship, would have up to 24 personnel. The SUAS Troop would conduct launch, recovery and maintenance activities required to operate two (2) air vehicles (AVs) simultaneously on up to a 24 hour per day, seven (7) day per week (24/7) basis from the SUAS Troop MOB.

> Note: A deployed site that required more than the above maximum flight rate would need to be augmented by additional operators/maintainers and equipment.

1.7.5.2 Combat Teams and support organizations will deploy from the MOB or other local fixed sites to conduct missions as and when required. The SUAS Troop would conduct all in-flight operations from the MOB when the mission requirements are best met by support from the MOB site.

1.7.5.3 For mobile Combat Team operations, the SUAV would still be launched and recovered at the MOB, but the in-flight control can be provided by an SUAS Detachment (Det) of two (2) operators accompanying the Combat Team. For those operations, the SUAS Det is an integral part of the Combat Team and all transportation, support and protection is provided within the Combat Team resources. The SUAS Det will operate from Combat Team vehicles in static positions, and they will also monitor the AV while the Combat Team vehicle is on the move.

2 REFERENCES

2.1 Applicable reference acronyms, definitions, publications, and documents are listed at Annex F.

3 GENERAL REQUIREMENTS

3.1 Technical Performance

3.1.1 The Contractor shall deliver two (2) Systems that perform at a level which is in compliance with or exceeds the criteria identified in Annex B (SPS).

3.2 General Deliverables.

3.2.1 The Contractor shall deliver the Systems, including all SUAV aircraft, ground support equipment, information technology equipment and spare parts required to operate the SUAVs from the CAF Ground Control System (GCS) shelter. This includes any special purpose launch and recovery equipment, and any associated items unique to the System.

3.2.2 The Contractor shall deliver all repairable spare parts, special tools and support equipment typically required to sustain the System for at least 150 launch/recovery cycles and 1,000 flight hours of typical training and operations.

> Note: Items, which are rarely required, need to be identified and included in the Recommended Spare Parts List, but they may not necessarily need to be included in the above spare parts deliverable.

3.2.3 The Contractor shall deliver all publications and manuals required for the safe and efficient operation and maintenance of the System.

3.2.4 The Contractor shall deliver all training required for the introduction of the System into CAF service, and for sustaining the System operational capability.

3.2.5 Until the Repair and Overhaul (R&O) services process under a separate contract is established and operating as intended the Contractor shall provide all warranty repair services and maintenance support as necessary to sustain a 90 % availability and a 90 % reliability rate for the System.

3.3 Warranty Administration

3.3.1 The Contractor shall provide documentation, which clearly explains the warranty claim process and details a comprehensive guide for obtaining and tracking warranty service procedures.

3.4 Hazardous Materials (HAZMAT) and Products

3.4.1 The Contractor shall comply with the Hazardous Products Act. This includes the requirement that the Contractor shall provide the required bilingual Material Safety Data Sheets (MSDS) for the shipment of any chemical or material deemed to be HAZMAT.

3.4.2 Treasury Board Hazardous Substance Directive and Canada Labour Code Part II dictate that the least hazardous materials should be used at the workplace. Therefore, the Contractor

shall strive to use the least hazardous product that meets the requisite performance requirements, and to avoid the use of controlled products.

3.5 Canadian Transportation of Dangerous Goods Act

3.5.1 The Contractor shall comply with the Canadian Transportation of Dangerous Goods Act (http://www.tc.gc.ca/eng/acts-regulations/acts-1992c34.htm) and the applicable Canadian Transportation of Dangerous Goods Regulations (http://www.tc.gc.ca/eng/tdg/safety-menu.htm). This includes the requirement that the Contractor shall provide all required labels for any shipment of dangerous goods.

3.6 Environmental Health and Safety (EHS) Management

3.6.1 The Contractor and its Subcontractors shall comply with the DND general safety program as detailed below, when work is performed at government owned facilities:

a. A-GG-040-004/AG-001 - General Safety Program - Volume 1, Policy and Program;
b. C-02-040-007/TS-001- General Safety Precautions (This document in part contains Controlled Goods, and will only be available to the Contactor after Contract award if the Contractor has the appropriate security clearance. Otherwise the Contractor will receive appropriate local safety briefings at DND work sites.);
c. C-02-040-009/AG-001- DND General Safety Standards; and
d. Canada Labour Code, Part II (http://laws-lois.justice.gc.ca/eng/acts/L-2/).

3.6.2 The Contractor and its Subcontractors shall have an Occupational Health and Safety Management System (OHSMS), which is consistent with the principles presented in Occupational Health and Safety Assessment Series (OHSAS) 18001 at its facilities located in Canada.

3.6.3 The Contractor's and his Subcontractor's activities under the SUAS Acquisition Contract and the associated In-Service Support Contract shall fully comply with the Canadian Environmental Protection Act and relevant environmental protection statutes and regulations whenever and wherever the activities are conducted in Canada.

3.7 Laser

3.7.1 The Contractor shall update as required the hazard evaluation on all laser types associated with the materiel or services provided under the Acquisition Contract IAW CFTO C-02-040-002/TS-001 (entitled Laser Safety). The American National Standard for Safe Use of Lasers (ANSI Z136 latest edition) is to be used for the preparation of the information.

3.8 Green Procurement

3.8.1 Canada is committed to greening its supply chain. In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to acquire products and services that have a lower impact on the environment than those traditionally acquired. Assessing the environmental impact of a product or service involves considering the whole life cycle of the product or service, from the extraction of the raw material to its disposition at the end of its useful life.

4 PROGRAM MANAGEMENT SERVICES

4.1 Project Management Plan (PMP)

4.1.1 The Contractor shall submit a PMP IAW Contract Data Requirements List (CDRL) PM001, Data Item Description (DID) PM-001, identifying the Contractor's Project Organizational Structure, contact names and information, and a Work Breakdown Structure (WBS) for tasks required to deliver the Work, including a Master Schedule and Milestones.

> Note: Each CDRL item has a corresponding DID. The CDRLs and DIDs are at Annex E.

4.1.2 The Contractor shall provide program management, including a Program/Project Manager (PM) and any support staff necessary to manage the Contractor work under this program. Canada will not provide office/work space for the Program Manager and the associated support staff.

4.1.3 The Contractor shall manage the project IAW the approved PMP.

4.2 Meetings

4.2.1 The Contractor shall provide support and assistance for Contract Progress Review Meetings (PRMs).

4.2.2 PRMs shall alternate between the Contractor's facilities and Canada's facilities in the region of Ottawa, Canada, or such other reasonable location as Canada requests in writing.

4.2.3 Videoconferencing and teleconferencing should be used when practical.

4.2.4 The Contractor shall provide appropriate representation at Contract PRMs, to be held with Canada at the following designated intervals:

a. Initial program Kick-off meeting at the Contractor facility within four (4) weeks of Contract Award,
b. PRMs at three month intervals until Full Operational Capability (FOC) is achieved;
c. Annual PRMs for the duration of the Contract,
d. Additional PRMs at Contractor facility if or when required, and
e. Weekly teleconferences if deemed necessary by Canada.

4.2.5 When the Contractor has more than 48 hours lead time before a meeting, the Contractor shall provide a one (1) page meeting agenda to the TA.

4.2.6 The Contractor shall provide minutes for each meeting, videoconference and tele-conference IAW CDRL PM002, DID PM-002.

4.2.7 During each meeting, the Contractor shall provide to the TA, in the appropriate electronic format and media, copies of any Presentation Packages as presented at the meeting.

4.2.8 The draft electronic format presentations for Quarterly PRMs shall be delivered one week prior to the meeting.

4.3 Reports

4.3.1 The Contractor shall submit progress Reports IAW CDRL PM003, DID PM-003 as and when required.

4.4 Risk Management

4.4.1 The Contractor shall prepare a Contractor Risk Management Plan (CRMP), delivered IAW CDRL PM004, DID PM-004, outlining measures to ensure that equipment and services are delivered on time, and that services and System support are maintained at an acceptable level throughout the period of the Contract.

4.4.2 The CRMP shall include appropriate measures for the management of risks associated with Additional Work Requirement (AWR) tasks and Technical Investigation and Engineering Support (TIES) tasks likely to be initiated under this Contract.

4.5 Task Management

4.5.1 The Contractor shall only undertake work not already identified within this SOW after receipt of an appropriate Contract Amendment delivered by the Contract Authority (CA) or a DND 626 provided by the CA or by the Requisition Authority (RA) if the work is within the RA's spending authority.

5 AIRWORTHINESS MANAGEMENT

5.1 General

Note: The DND Airworthiness Program has its roots in the Aeronautics Act, a statute of Canada. Contrary to its civil counterpart that is implemented using regulations, the DND program is, in part, enforced by having its requirements implemented through the various contracts that DND establishes with companies for the procurement and maintenance of aeronautical products.

5.1.1 For the SUAS procurement and the associated In-Service Support Contract, the DND Airworthiness program is implemented by requiring that the Contractor shall perform the airworthiness-related tasks defined in the SOW.

Note: The Department of National Defence (DND) Airworthiness Program is defined in the DND document A-GA-005-000/AG-001, DND/CF Airworthiness Program. Its technical component is defined in C-05-005-001/AG-001, Technical Airworthiness Manual (TAM). The TAM contains the DND technical airworthiness rules, standards and advisory material and is the primary reference for interpretation of DND Technical Airworthiness Program requirements.

Within DND the Directorate of Technical Airworthiness and Engineering Support (DTAES) organization is responsible for the management of the DND Technical Airworthiness Program, including the TAM. DTAES provides technical airworthiness oversight for all DND aircraft on behalf of the Technical Airworthiness Authority (TAA). In the context of this SOW, the TAA will be represented by the DTAES personnel having been granted the appropriate airworthiness authority.

It is important to note that the TAA has airworthiness authority internally within

DND but does not have any contractual authority in relation to the Work being performed under the Contract.

5.1.2 In the context of this SOW, the TA will request approval from the TAA for the Contractor-submitted documentation that requires TAA approval.

5.2 Technical Airworthiness Scope

5.2.1 The scope of Work defined within this section of the SOW, encompasses the Contractor's technical airworthiness requirements to support the issuance of a Technical Airworthiness Clearance (TAC) for the SUAS fleet from the TAA. The data provided under this SOW will also be used by the Operational Airworthiness Authority (OAA) to determine whether the SUAS and the Contractor provided support program meet the requirements for the issuance of an Operational Airworthiness Clearance (OAC).

5.3 Technical Airworthiness Clearance (TAC)

Note: The overall TAC process encompasses those technical airworthiness activities required to declare that an aeronautical product has met the technical requirements of the airworthiness program and that, from a technical airworthiness perspective, it is ready to enter into operational service.

In DND airworthiness context, DND has designated the TA for the acquisition of the new SUAS aeronautical product as the Applicant for obtaining a TAC for the SUAS fleet from the TAA.

The TAC requirements, as stipulated in the TAM, have been tailored for the SUAS based on its future operations as defined in the Statement of Operating Intent (SOI) and Statement of Requirements (SOR). Furthermore, a full Type Certification will not be possible at this stage due to the lack of proper certification standards for this UAS class.

The SOI and SOR may be made available to the Contractor after Contract award.

5.3.1 The Contractor, through provisions with the SUAS Original Equipment Manufacturer (OEM) if required, shall provide the TA with the support required for obtaining TAC, as defined in this SOW.

5.3.2 The TAC objectives will be achieved through the following elements:

a. SUAS Special Type Certificate (SSTC)
b. SUAS Aeronautical Product
c. In-Service Support

5.4 SUAS Special Type Certificate (SSTC)

5.4.1 General

5.4.1.1 An SSTC will be issued by the TAA when it has been clearly determined that the SUAS design is acceptably safe to operate within its defined roles, environment and limitations. This assertion will be developed through a Safety Case (SC) that will be built upon the following premises:

a. The baseline SUAS design has been previously authorized for operation by a government or military airworthiness authority acceptable to the DND airworthiness authority;

> Note: Airworthiness certification or other flight authorization supporting documentation from Australia, Canada, the, UK, or the US is acceptable; or
>
> Applicable documentation from other sources will be considered, and a ruling will be provided once Canada has reviewed the documentation.

b. The SUAS design is defined, and has completed verification;

c. The SUAS has been developed through processes that are mature, appropriate and have been applied across the board;

d. The safety has been appropriately addressed when considering systematic design influences such as system integration, software, and environment; and

e. The residual risk associated with identified SUAS hazards has been defined and accepted by DND.

> Note: To argue that the proposed SUAS design is acceptably safe to operate within its defined roles, environment and limitations, the TAA staff will need access to the body of evidence related to the OEM`s design and fleet in-service history in support of the SC. The process used by the TAA to prepare its SC will be through reviews of documents, which will have been delivered to Canada IAW the CDRL and through Type Design Examination activities performed at the OEM facility.

5.4.2 SUAS Design Maturity

5.4.2.1 The Contractor shall propose a SUAS which has had its baseline and/or current design, previously authorized for operation by a government or military airworthiness authority acceptable to the DND airworthiness authority. The System overview, design maturity claim substantiation, previous flight authorization information and answers to specific operation questions shall be provided within the Product Description Package that the Contractor shall provide IAW CDRL AW001, DID AW-001.

5.4.2.1.1 The Product Description Package shall include information stating the expected average life cycle for major components of the System. This shall specifically include launch/recovery cycles, or operating hours if applicable, for the launch/recovery system, the airframe, any included payloads, aircraft batteries, the engine and propulsion system, and any other critical assets with a service life defined in hours or duty cycles.

5.4.2.2 The System either:

a. shall be part of a Unmanned Aircraft System (UAS) that is already qualified, certified or approved for flight operations by an Australian, Canadian, UK or US military airworthiness agency or civilian regulatory body, or

b. shall have documentation for proof of system design and system support standards for Canada to determine if the System history adequately supports Canada’s risk

assessment process and the application for airworthiness required to obtain flight authorization for CAF operational use.

5.4.2.3 Heavy Fuel Engine (HFE) Maturity.

5.4.2.3.1 The HFE should have accumulated at least 1,200 hours of flight operations. If the current configuration of the HFE has not accumulated at least 1,200 hours of flight operations the Contractor shall provide a detailed description of the engine development program. This shall include descriptions of the ground testing program and flight testing program. The details shall clearly indicate all specific components replaced or modified to convert any earlier design of the specific engine during the most recent 1,200 flight hours to develop the current HFE design.

5.4.3 System Safety Assessment (SSA) / Functional Hazard Assessment (FHA)

5.4.3.1 If the SSA and the FHA, or equivalent documents produced in support of the SUAS design exist, the Contractor shall provide those documents IAW CDRL AW002, DID AW-002.

5.4.4 SUAS Flight Manual

5.4.4.1 The Contractor shall provide an SUAS Flight Manual for approval by Canada that contains the information that is necessary for safe operation as related to the design, operating or handling characteristics. The Flight Manual shall be prepared IAW CDRL AW003, DID AW-003

5.4.5 SUAS Special Type Certificate Data Sheet (SS/TCDS)

5.4.5.1 The Contractor shall provide an SS/TCDS. The SS/TCDS shall be prepared IAW CDRL AW004, DID AW-004.

5.4.6 SUAS Established Safety Record

5.4.6.1 The Contractor shall provide the in-service data required to demonstrate the safety record of its proposed SUAS. The in-service data shall be prepared IAW CDRL AW005, DID AW-005.

5.4.7 Type Design Examination (TDE)

5.4.7.1 In support of the initial TDE activities, the Contractor shall establish provisions with the SUAS OEM, to allow Airworthiness Authority specialists full access to:

a. OEM Engineering specialist support (estimated at 200 engineering man-hours plus associated administrative support);
b. OEM Engineering, Technical and System Safety data (including items such as a System Safety Assessment (SSA) and Functional Hazard Assessment (FHA)) supporting the proposed Type Design, and associated verification activities;
c. OEM facilities, including office space to conduct meetings and interviews;
d. OEM Records and reports supporting the Quality and Configuration Management Systems;
e. OEM organizational processes, procedures and instructions related to the design, development, and tests; and

f. Operator`s Handbook(s) and Checklists.

5.5 SUAS Aeronautical Product

5.5.1 General

5.5.1.1 The DND Airworthiness Program requires that the Contractor shall produce each SUAV and the SUAS as a whole in conformance with the established type design, and that each SUAV shall be registered on the DND Military Aircraft Register and identified with appropriate markings.

5.5.2 SUAS Flight Authority

5.5.2.1 Prior to transfer of title of each SUAS to Canada, the Contractor shall perform all actions required for obtaining an aircraft registration and flight authority, from the regulatory authority governing the Contractor's operations, such that the SUAV can be flown for all applicable testing and acceptance flights.

5.5.3 SUAV Aircraft Identification Markings

5.5.3.1 The Contractor shall prepare and submit for approval, SUAV Identification Markings Drawings IAW CDRL AW006, DID AW-006.

5.5.3.2 Canada will maintain the aircraft registration for each individual SUAV on the DND Military Aircraft Register IAW the Aeronautics Act requirements. The contractor shall provide Canada the serial numbers of all the SUAS aircraft scheduled for delivery. On receipt of the aircraft serial number information, Canada will assign registration numbers to each aircraft.

5.5.4 Certificate of Conformance (CoC)

5.5.4.1 The Contractor shall prepare and submit for each SUAS and for each individual SUAV a CoC prepared IAW CDRL AW007, DID AW-007 for TAA approval.

5.6 In-Service Support

5.6.1 General

5.6.1.1 The validity of the TAC issued by DND is conditional on the continued airworthiness of the contracted services and associated equipment used to fulfil the contractual requirements. The contractor shall be required to provide DND with a reasonable assurance that the level of safety can be maintained for the duration of the contract and option periods.

5.6.2 Airworthiness Management Plan (AMP)

5.6.2.1 The contractor shall produce an AMP IAW CDRL AW008, DID AW-008. Once this plan is approved by Canada, the contractor shall meet the requirements of this plan in order to maintain the TAC of the SUAVs and the SUAS as a whole. Whenever there are applicable changes that affect Canada's SUAS, the contractor shall revise this plan to reflect changes to ISS concepts, and seek TAA approval.

5.6.3 Technical Airworthiness Authority Oversight

5.6.3.1 The contractor shall provide access to contractor facilities to perform the initial in-service support system evaluation and any audits, review or evaluations conducted during in-service SUAS operations. Where the TAA identifies that an audit, review, or evaluation is required, the following support will be needed from the organization being assessed:

a. On-site support to the audit team, including office space to conduct meetings and interviews;
b. Contractor Engineering specialist support (estimated at 128 engineering person-hours plus associated administrative support);
c. Access to qualification and authorization files of staff supporting the SUAS;
d. Access to work orders and other technical data generated within the organization supporting the SUAS;
e. Access to engineering and technical information used in support of the continued airworthiness of the SUAS;
f. Access to the organizations records and reports that support the Quality Management System registration;
g. Access to organizational manuals, procedures and instructions used to support the SUAS;
h. Technical and management staff to support DND auditors; and
i. Preparation and implementation of Corrective Action Plans, when required, that are acceptable to the TAA.

5.6.4 Engineering Support Services

5.6.4.1 The Contractor shall have established provisions with the SUAS OEM, through a support contract, to ensure access to engineering support services throughout the contract duration and for option years.

5.6.4.2 To maintain the System suitability for certification or flight authorization within the terms specified in or associated with the SOW, the Contractor shall submit documentation to Canada that demonstrates satisfactory proof of the design, production and quality assurance processes. The information shall be conformant to ISO 9001:2008 Quality Management System Requirement and ISO/IEC 90003 Software Engineering - Guidelines for the application of ISO 9001:2000, to computer software.

5.6.5 Operational Airworthiness Oversight

5.6.5.1 It is estimated that the Operational Airworthiness Clearance (OAC) audit team visit will involve up to three (3) specialists working a total of up to 100 hours during a one (1) week period to conduct all required interviews and documentation reviews.

5.6.5.2 The TAC and OAC visits will not necessarily be scheduled for the same dates.

5.6.6 Airworthiness Manager

5.6.6.1 The Contractor shall have and shall identify an airworthiness manager that is the point of contact for all airworthiness related problems. This person shall be the point of contact for reaching the OEM for airworthiness issues.

6 SYSTEM ENGINEERING

6.1 General System Requirements

6.1.1 System Engineering and Airworthiness

6.1.1.1 The Contractor's System Engineering services provided to Canada under this program shall focus on obtaining and sustaining Canada's airworthiness and flight authorization requirements.

6.1.1.2 In this context, the Contractor shall employ system engineering, testing and production procedures that fully comply with the Annex B (SPS) requirements and the Section 5 airworthiness requirements and standards of this SOW.

6.2 System Integration

6.2.1 With the exception of the equipment already installed in the Stationary GCS (SGCS) and the ROVER 6 equipment provided for the Mobile GCS (MGCS) the Contractor shall:

a. provide and install all equipment required for the eight (8) SGCS sets (I.e.: Seven (7) ISO shelter installations and one (1) classroom installation); and

b. provide eight (8) MGCS sets (I.e.: the GCS computer and software, and any additional components required to connect to the ROVER 6 equipment supplied by Canada. This does not include vehicle installation mounting hardware for specific CAF vehicles.)

> Note: Canada will be responsible for the vehicle specific hardware installations required to mount an MGCS in CAF vehicles.

6.2.2 Installation Systems Design

6.2.2.1 Canada will provide one Medium Support Vehicle System (MSVS) shelter with the applicable installation hardware (including Computer Displays/Monitors, Uninterruptible Power Supply, 19" Rack and selected Work Station Interface items) and software to the Contractor as early as is practicable after Contract award. Within the shelter the following protocols shall be used:

a. Local area network connections shall use standard commercial Mechanical Transfer Registered Jack (MT-RJ) connectors for fibre connections;

b. All DND Universal Serial Bus (USB) equipment will use 4 pin USB "A" connections. Contractor equipment should also use USB "A" connectors. Contractor supplied equipment shall meet USB-2 or USB-3 standards;

c. The shelter also includes a fibre-optic network and fibre-optic switches, which the Contractor shall use to support the communications requirements of the Contractor installed System computers; and

d. The video monitors use DisplayPort connectors.

6.2.2.2 The Contractor shall complete a prototype system integration design for the shelter installations within 45 calendar days of receipt of the GSM. The prototype SGCS shall be used for the completion of System trials and System Acceptance Testing prior to System acceptance and delivery.

6.2.2.3 The Contractor shall complete the MGCS testing and certification, and applicable ROVER 6 compatibility and interoperability testing, within 150 calendar days of receipt of the applicable GSM.

6.2.3 Shelter System Production

6.2.3.1 A total of seven (7) of the shelter versions of the SGCS shall be installed in MSVS shelters.

6.2.3.2 The eighth (8^{th}) shelter version of the SGCS shall be installed in a classroom facility at Canadian Forces Base (CFB) Gagetown, Oromocto, New Brunswick.

6.3 Technical Issue Resolution

6.3.1 The Contractor shall, on an as required basis, resolve any identified technical or Contractor initiated procedural problems with the original contracted baseline System capability.

6.3.2 All Technical Problems identified by DND will be entered in the Defence Resource Management Information System (DRMIS), screened by DND maintenance organization management or the designated release authority for accuracy and completeness, and then forwarded to the TA. The TA will determine if Contractor assistance is required to resolve the technical problem. If required the Contractor shall provide technical advice and if required; engineering support in the form of any system engineering tasks, which must be executed to resolve technical issues that have arisen.

6.3.3 Technical issue resolution expected to be conducted by the Contractor shall include designing, developing, integrating, manufacturing, installing, testing, qualifying, certifying and supporting the contracted baseline capability as per the specifications and scope of the Contract or as changed by any completed tasks and approved configuration changes in effect at the time a problem is identified.

6.3.4 The Contractor shall not be liable for the cost of resolving technical issues or procedural problems that are the result of changes to Canada's decisions and actions after the System is accepted and has received airworthiness approval for operations. Any such changes shall only be undertaken under an authorized contract task issued to the Contractor by Canada.

6.4 Payload Integration - Interface Control Documents (ICD)

6.4.1 The Contractor shall identify the characteristics and performance specifications of any additional or special purpose payloads available for the System.

6.4.2 The Contractor shall provide an ICD describing the specific information requirements from the SPS IAW CDRL SE001, DID SE-001.

6.4.3 If tasked by Canada, the Contractor shall provide any applicable ICD and associated payload and air vehicle metadata in support of any Government Furnished Equipment (GFE) payloads and other payload integration/testing tasks IAW CDRL SE001, DID SE-001.

6.5 Request for Deviations/Waivers

6.5.1 The Contractor shall observe standard CAF practices for any temporary or permanent change from baseline System specifications for new System components developed and placed in service on equipment used for this contract.

6.5.1.1 The Contractor shall submit a Request for Deviation IAW CDRL SE002, DID SE-002, when specific replacement or repaired components will not meet the contracted performance specifications for a specific period of time.

6.5.1.2 The Contractor shall submit a Request for Waiver IAW CDRL SE002, DID SE-002, when a proposed permanent change will affect the System compliance to Annex B (SPS).

6.6 Configuration Management (CM)

6.6.1 General: It is Canada's intent that the System Original Equipment Manufacturer (OEM) shall retain responsibility for CM of the System as a portion of the OEM's ongoing fleet CM program for the purposes of maintaining airworthiness certification/authorization.

6.6.1.1 The Contractor shall clearly identify any configuration items changed to produce the version of the AV proposed to Canada. Canada will have the option of accepting the proposed changes, or adopting the specification and configuration in use for the other aircraft supported by the OEM.

6.6.2 The Contractor shall be responsible for CM IAW CDRL SE003, DID SE-003 for the System, and as a minimum has a configuration plan in place that meets or exceeds the standards of D-01-002-007/SG-001.

6.6.3 The Contractor shall provide adequate documented evidence of the Contractor's CM Plan(s) IAW CDRL SE003, DID SE-003.

> Note: To achieve airworthiness authorization in Canada the CM plans must satisfy the requirements of the appropriate DTAES staff. This will be confirmed by DTAES staff during a CM system inspection visits to the Contractor facilities as part of the process of granting airworthiness approval.

6.6.4 Any Contractor-initiated changes to the configuration of the System as delivered (accepted baseline) necessitated by failure to maintain performance IAW the Annex B (SPS), shall be to the account of the Contractor for a period of one (1) year from completion of initial System and spares deliveries. This includes replacement of delivered repair parts, spares, and consumables, modifications to Systems, and any resulting changes required to Contractor provided publications.

6.6.5 The Contractor shall not introduce configuration or system support changes affecting airworthiness to Systems providing ISR capabilities to Canada without the prior approval of the TA and DND's airworthiness authority.

6.6.6 The Contractor shall provide adequate service history, design and test data or other information as appropriate to achieve and maintain airworthiness approval and flight authorization for any improvements or applicable additions to the System.

6.6.7 The Contractor shall recommend for DND approval, which items from the System are to be designated as configuration items, using criteria presented in the Contractor's CM Plan.

Once accepted by the TA, CIs will be identified in the DRMIS master data file developed within DND.

6.6.8 The Contractor shall assign unique identifiers to hardware and software items and their associated configuration documentation;

6.6.9 The Contractor shall ensure the unique identifiers are marked on hardware, on software media, embedded in software code and electronically embedded in alterable firmware;

6.6.10 The Contractor shall identify the configuration baselines that will be used to manage the product configuration, and subsequently use these baselines to maintain configuration control;

6.6.11 The Contractor shall determine (and subsequently prepare) the configuration documentation needed to define each configuration baseline for each type of configuration item. Such documentation will progressively define functional requirements, design constraints, interface characteristics, test requirements and other technical data required in the project;

6.6.12 The Contractor shall have an engineering release system for configuration documentation, and use that system to issue any required material change notices IAW D-01-100-215/SF-000, and the correct and current configuration documentation for use by functional activities (such as test and evaluation, maintenance planning and production); and

6.6.13 The Contractor shall maintain traceability between product units and their respective manuals, warranties and life cycle support obligations.

6.7 Obsolescence Management

6.7.1 The Contractor shall maintain System airworthiness standards and the applicable documentation for the baseline System for the term of the Contract by implementing any necessary obsolescence management and resulting technology updates.

6.7.2 Additional system engineering support for equipment not included in the original contracted System baseline shall be separately negotiated as and when required for the applicable equipment customization and testing.

6.8 Frequency Management and Supportability

6.8.1 If the Radio Equipment for the System is not already certified for use in Canada, the Contractor shall complete and submit the form DND 552, Application For Frequency Supportability, IAW CDRL SE004, DID SE-004, or the United States Department of Defence equivalent, accompanied by supporting documentation to enable Canada to assess and initiate the appropriate frequency allocation coordination for the conduct of SUAV operations. The Contractor shall then provide updates to the documents if any changes that affect the frequency spectrum requirements are made to the System during the period of the Contract. There shall be separate forms covering each of the following sub-systems for the aircraft and the GCS:

a. Transmitter Equipment Characteristics,
b. Receiver Equipment Characteristics, and
c. Antenna Equipment Characteristics.

6.8.2 The Contractor shall then provide updates to the documents if any changes that affect the frequency spectrum requirements are made to the System during the period of the Contract.

6.8.3 If the Contractor chooses to use frequencies for which DND is unable to obtain the required licenses the Contractor shall, at its own cost, implement a solution acceptable to Canada within 75 calendar days of contract award.

6.9 System Evaluation and Acceptance Testing

6.9.1 The Contractor shall provide an Acceptance Test Plan (ATP) IAW CDRL SE005, DID SE-005 that includes all elements of the flight demonstration program identified in Canada's evaluation criteria and all readily demonstrated mandatory and rated capabilities claimed by the Contractor.

6.9.2 The demonstration shall be at a location mutually acceptable to the Contractor and Canada.

6.10 System Acceptance Testing

6.10.1 System Acceptance Testing IAW the approved ATP shall be performed by the contractor and approved by Canada prior to System delivery.

6.10.2 The Contractor shall inform Canada of the acceptance testing dates and locations early enough to enable Canada to coordinate the required visit clearances and cost effective travel and accommodations.

6.10.3 The AVs shall, within the limits of current environmental conditions, be subject to 100% inspection and testing.

6.10.4 All remaining equipment shall be subject to random testing. If the random testing indicates a failure to meet specific criteria then 100% equipment Acceptance Testing shall be required to determine the scope of any delivered equipment performance issues.

7 INTEGRATED LOGISTICS SUPPORT (ILS)

7.1 General

7.1.1 The Contractor shall provide all necessary documentation mandated by Canada to catalogue and inventory the complete System, and to complete the System deliveries to the CFSS. This includes all consumable items, all repairable parts and assemblies, all Special Tools and Test Equipment (STTE), and any applicable material necessary to keep the System capability in operation.

7.2 ILS Plan

7.2.1 The Contractor shall provide the ILS Plan IAW CDRL ILS001, DID ILS-001.

7.2.2 The ILS Plan shall be based on the general support concept and concept of operations for the Systems.

7.2.3 The ILS Plan shall provide detailed Contractor maintenance and support concepts, training and maintenance activities, Logistics Support Analysis (LSA) methodology used to develop the support concept, the applicable Recommended Spare Parts List (RSPL), and the

stock levels it will recommend to ensure the availability requirement are achieved, IAW Annex B (SPS).

7.2.3.1 The intent of the Logistics Support Analysis (LSA) is to identify, define, analyze, qualify and quantify the logistics requirements to provide a good balance between System performance, operational readiness, reliability, maintainability, vulnerability, survivability, operating and support costs, supportability and logistics requirements. The LSA data will be an important data source to initialize and maintain the DRMIS Master data.

7.2.3.2 The DRMIS is a complementary system that provides the 1st and 2nd line maintenance and supply support to the SUAS. As DRMIS will be the system of record for maintenance and supply data within DND, the Contractor will define what existing data elements are required from DRMIS to support the SUAS Life Cycle Material Management responsibilities assigned to the Contractor.

7.2.3.3 DND will be using DRMIS as the IM/IT tool to conduct the SUAS program functions of Supply and Maintenance. DRMIS will support the following integrated functionalities:

a. Finance and controlling;
b. Procurement;
c. Asset accounting;
d. Equipment configuration management including Engineering Change;
e. Corrective and Preventive Maintenance, Repair & Overhaul integrated with inventory management;
f. Material identification;
g. Equipment movement orders;
h. Management of maintenance spares;
i. Business and Equipment planning;
j. Project management; and
k. Workforce management in support of maintenance.

7.2.3.4 The Contractor on site at the Commodity Point at CFB Gagetown shall complete and submit locally produced forms required to provide applicable information to the CFB Gagetown personnel responsible for updating the DRMIS records.

7.3 Provisioning Documentation

7.3.1 The Contractor shall provide provisioning documentation IAW CDRL ILS002, DID ILS-002, including a Provisioning Parts Breakdown (PPB) as per D-01-100-214/SF-000, Specification for Preparation of Provisioning Documentation for CAF Equipment.

7.3.2 If appropriate provisioning documentation already exists the Contractor should provide provisioning documentation that supports the RSPL with its proposal.

7.4 Initial Fielding and Support Assumptions

7.4.1 The Contractor shall deliver the Systems and spare parts for the training flights for the CAF instructors and operators, and all required training aids and training materials, no later than 120 days after Contract award, and at least 60 calendar days before the start of training.

> Note: This will allow Canada to issue the initial stock to the appropriate units in time to be prepared to receive the initial training.

7.4.2 The Contractor shall deliver all remaining equipment and establish any required ILS services capability IAW an agreed schedule, which enables Canada to conduct all required training for 12 CAF Instructors, and to complete the System operator training and equipment distribution required to achieve IOC within 12 months after Contract award. This shall include the scheduling of instructors to supervise CAF training.

7.4.3 The Contractor shall deliver the first shelter installed SGCS to Canada on the earliest of either: 90 calendar days after receipt of the applicable Government Supplied Material (GSM) from Canada, or 150 days after Contract award. Delivery of this SGCS shall be accompanied by delivery of an appropriate quantity of spare parts and any associated support kit required to support the SGCS.

7.4.4 The Contractor shall deliver all remaining equipment and establish any required Integrated Logistics Support (ILS) services capability IAW an agreed schedule which enables Canada to conduct all required training and equipment distribution and to achieve FOC within 15 months after Contract award.

7.4.5 Once an item enters the Canadian Forces Supply System (CFSS), the item will be managed using DRMIS, DND's inventory management program.

7.5 Initial Provisioning Documentation

7.5.1 Within 60 days after Contract Award, the Contractor shall provide all necessary documentation mandated by Canada to catalogue and inventory the System into the CFSS.

7.5.2 The Contractor shall provide all consumable items, all repairable spare parts and assemblies, all STTE, and any applicable material necessary for the System Operators and any required Support Technicians to maintain System availability IAW Annex B (SPS).

7.5.3 Complete aircraft with payloads shall be shipped and stored in re-usable shipping containers.

7.5.4 The Contractor shall be prepared to hold DND owned repairable assemblies on an account to be established after Contract award. These repairable items will be selected from the Contractor RSPL.

7.5.5 The Contractor shall also hold its own consumable items, spare parts and assemblies as required, to support the SUAS program on its own accounts. Items from this Contractor owned stock will be sold to Canada on an as required basis to replace items consumed, lost or destroyed during System operations. The Contractor has full responsibility for determining its own stock levels for consumables, spare parts and assemblies required to sustain the 90% system availability requirement.

7.5.6 Together the DND owned assets and the Contractor owned assets form a pool of equipment, spare parts and consumable items ready to fill demands from unit operators. Following approval from the TA and the RA or CA IAW the appropriate funding approval limitation all procurement demands shall be filled within an appropriate time as needed to sustain System availability at or above the required 90 % minimum.

> Note: Under the separate In-Service Support Contract concept, the Contractor will hold and manage the repair parts stock required to support the SUAS at a Commodity Point at CFB Gagetown.

7.6 Drawings, Associated Lists and Cataloguing

7.6.1 The Systems, and all consumable items, spare parts, and reusable shipping/storage containers that will be held by Canada in support of System operation, training and maintenance activity, shall be appropriately catalogued.

7.6.1.1 Where the item has already been catalogued under a NATO Stock Number (NSN), the Contractor shall only be required to provide information which identifies the items to Canada's satisfaction and enables Canada to adopt the existing NSN.

7.6.1.2 Where items have not already been catalogued, the Contractor shall provide cataloguing documentation and information IAW CDRL ILS003, DID ILS-003, as required by Canada to enable Canada to catalogue the items.

7.6.1.3 The contractor shall document and provision kits to be packaged and supplied with each Line Replaceable Unit (LRU) that contain all the repair parts and Common and Bulk Items (CBIL) less Petroleum, Oil and Lubricants (POL) that will be consumed in the removal and replacement of the LRU. The outcome will ensure that in ordering the LRU through DRMIS the CAF Technician will receive all items required to Remove and Replace the LRU. If there are cases where the contractor feels this is not efficient for a given LRU the Contractor shall recommend an alternative approach to the TA.

7.6.2 Canada will accept existing drawings/associated list if they meet the requirements of CDRL ILS003, DID ILS-003.

7.6.3 The cataloguing information for each item/assembly shall state whether the item is a Controlled Good. If applicable, the information shall identify if the item/assembly is specifically subject to Controlled Goods regulations. If the Drawing or Associated List does not already include the Controlled Goods information, then the information may be provided separately. Controlled Goods identification requirements include the following:

a. The Contractor shall identify for US origin controlled goods also known as defence articles, the United States Munitions List (USML) Category and paragraph that apply IAW the International Traffic in Arms Regulations (ITAR);
b. The Contractor shall identify for US origin dual use, the Export Control Classification Number (ECCN) of the Commerce Control List that applies;
c. The Contractor shall identify for Canadian origin items, Canada's Export Control List (ECL) articles that apply IAW the Schedule of the Defence Production Act (DPA);
d. The Contractor shall identify for any other country than Canada or the United States of America (USA), the category and article of the Wassenaar Control List that applies;
e. The Contractor shall identify any components or sub-components that are specifically designed or modified for military purpose, to facilitate the production of Demilitarization Instructions;

f. For items of US or Canadian origin that are going to be catalogued, the Demilitarization Code (DMC) shall be indicated in the Provisioning Parts Breakdown (PPB);

g. Marking of Controlled Goods packaging shall be done IAW the Transportation of Dangerous Goods Act, the Hazardous Products Act and Controlled Products Regulation; and

h. The Contractor shall be responsible for the functions associated with Controlled Goods Management of the Defence Production Act (DPA) requirements for SUAS equipment moving across international borders.

7.6.4 For items that are not proprietary to the Original Equipment Manufacturer (OEM), the Contractor shall provide Level 1 Drawing/Associated Lists packages when and as required IAW CDRL ILS003, DID ILS-003.

Note: Standards for engineering drawings are described in D-01-400-001/SG000, Engineering Drawings Practices. The "levels" of drawings are described in D-01-400-002/SF-000 Levels of Engineering Drawings, Engineering and Associated Lists.

Note: Assigning a Contractor part number to such items and claiming to be the sole source for such items is not an acceptable practice.

7.6.5 For all items that are proprietary to the OEM, the Contractor shall provide to DND Level 1 Drawing/Associated Lists packages when and as required IAW CDRL ILS003, DID ILS-003, and documentation certifying which parts are only available from a sole manufacturer.

7.6.6 The Contractor shall enable Canada to access the appropriate Level 3 drawings at the Contractor facility with seven (7) calendar days notice when required for any specific investigation involving safety or airworthiness issues or unresolved technical problems.

7.6.7 The Contractor shall deliver to Canada a Level 3 drawing package, IAW CDRL ILS003, DID ILS-003, for any special purpose items developed at Canada's cost.

7.7 Maintenance Concept

7.7.1 Canada's maintenance concept is comprised of three (3) levels:

a. Field Level / First Line Operator Maintenance;

b. Unit Technical Maintenance; and

c. Contractor Maintenance Support, and Repair and Overhaul (R&O).

7.7.2 Level 1 - Operator and Unit Technician Maintenance:

7.7.2.1 The CAF System operators and unit technicians will perform inspections and tests, run System self-diagnostics, and do repairs IAW Contractor approved unit maintenance procedures.

7.7.2.2 Repairable components and assemblies on charge to the CAF units will be returned to the Contractor and the repair work shall be processed IAW the terms of the in-service support Contract SOW.

7.7.3 Level 2 - Technical Maintenance:

7.7.3.1 Appropriately trained CAF technicians or operators will complete level 1 and level 2 inspection and repairs IAW the Contractor's unit maintenance instructions and maintenance manuals.

7.7.3.2 CAF Technicians will troubleshoot and complete repairs for data link and information technology equipment components of the System when the repairs are not operator maintenance tasks.

7.7.3.3 The CAF technicians will also have administrator rights to the aircraft and GCS software and be able to load software.

7.7.3.4 CAF maintainers will order and return spare parts and maintenance materials through DRMIS. CAF personnel will also track resource availability through DRMIS.

7.7.4 Level 3 - Contractor Repair:

7.7.4.1 The Contractor level maintenance that shall be performed by the Contractor includes repairs, upgrades, modifications and repair by exchange/replacement for components and assemblies returned to the Contractor.

7.7.4.2 The Contractor shall complete warranty repairs associated with the initial deliveries of equipment at no cost to Canada.

> Note: With the exception of warranty repairs the intent is that all Contractor level repairs will be performed and documented under a separate services contract with a Canadian location that manages the appropriate repairs IAW the applicable sections of A-LM-184-001/JS-001, Special Instructions for Repair and Overhaul Contractors.

7.8 Maintenance Plan

7.8.1 The Contractor shall submit a maintenance plan including detailed maintenance schedules, and logs for periodic maintenance and repairs IAW CDRL ILS004, DID ILS-004.

7.8.2 This Maintenance Plan shall be prepared in the context of the Maintenance Concept, and shall be designed to maintain the required System availability in the context of Canada's maintenance concept.

7.8.3 The Contractor shall provide appropriate technical publications required by CAF technicians/operators for the safe and effective performance of the applicable maintenance tasks to be carried out by CAF personnel.

7.8.4 Technical publications should meet the standards set out in the following:

a. D-01-100-204/SF-000, Preparation of Preventive Maintenance Instructions; and
b. D-01-100-205/SF-000, Preparation of Corrective Maintenance Instructions.

7.9 RSPL

7.9.1 The Contractor shall provide the RPSL IAW CDRL ILS005, DID ILS-005, including identification of long lead time items and any applicable material necessary to support 5,200 flight hours.

7.9.2 The RSPL shall be based on component Mean Time Before Failure (MTBF) data arising from a combination of engineering and design data and on actual failure trends and data derived from operational trials or from support provided to operational flights.

7.9.3 The RSPL shall identify the recommended quantities of repair parts, spares and consumables to maintain System availability based on Contractor analysis of environment, usage and failure analysis. The actual quantity Canada will initially procure, will be established during Contract negotiation/finalization.

7.10 Repair and Overhaul (R&O)

7.10.1 The Contractor shall provide all component R&O support required under normal operating conditions to achieve the System availability and flight hours IAW Annex B (SPS).

7.10.2 Contractor repair procedures shall be performed and documented under a separate Repair and Overhaul (R&O) contract and IAW the applicable sections of A-LM-184-001/JS-001, Special Instructions for Repair and Overhaul Contractors.

7.11 Consumable Parts Bundle and Reparable Parts Bundle

7.11.1 If tasked, the Contractor shall generate and be prepared to deliver one (1) or more Consumable Parts Bundle or Reparable Parts Bundle to support deployed operations. Each Parts Bundle shall contain sufficient consumable and repairable spares and repair parts to support flight operations at a deployed site for 100 days while it is operating at an average rate of 10 hours per day. (I.e.: 1,000 flight hours worth of appropriate Spare Parts for the AV, GCS and Launch/Recovery equipment.)

7.11.2 If tasked to create and hold a Parts Bundle, when using the Parts Bundle to rotate materials and spares provided to Canada, the Contractor shall demonstrate that they have the replacement materials or spares available within 30 days to restore the Parts Bundle to its full inventory.

7.11.3 Upon deployment of an operational fleet, the spare parts and repairable stock contained in the Parts Bundle(s) will be transferred to a DRMIS Spares Account and managed as consignment stock for the duration of the deployment.

7.12 Packaging, Handling, Storage and Transportation (PHST)

7.12.1 The Contractor shall provide all technical data, publications and material required for the safe storage, transportation, handling, and disposal procedures of any items to be handled by CAF personnel during the conduct of System operation and related maintenance work.

7.12.2 The Contractor shall provide instructions on the short term and the long term storage and handling of all batteries and all shelf life limited components and materials used in the System.

7.12.3 Labelling and Packaging

7.12.3.1 Marking Components for automated shipping and handling

7.12.3.1.1 The contractor shall generate, assign and install Unique Item Identifiers (UII) to all non consumable items delivered to DND. The UIIs shall be in a machine readable form on the outside of the material or on the package when not easily accessible. The implementation of this requirement shall be as mandated by A-LM-505-702/JS-001 and IAW STANAG 2290.

7.12.3.2 The Contractor shall follow best commercial procedures for the labelling and packaging of equipment, assemblies and spare parts. Guidance on the minimum acceptable standards is available in the following DND references:

a. C-02-005-009/AM-000, Inspection And Conditioning Of Materiel Returned To And Held in The Supply System;
b. D-01-100-207/SF-000, Preparation of Parts Identification List:
c. D-LM-008-001/SF-001 Methods of Packaging;
d. D-LM-008-002/SF-001 Specification for Marking for Storage and Shipment;
e. D-LM-008-022/SG-000, The Standard for packaging of documentation; and
f. D-LM-008-036/SF-000 Department of National Defence Minimum Requirements For Manufacturer's Standard Pack.

7.12.3.3 For materiel being shipped to or stored at a DND facility (such as spares and repair parts, special tools, support equipment, test equipment and training equipment), the Contractor shall provide data elements consistent with the applicable sections of A-LM-184-001/JS-001.

7.12.4 The Contractor shall provide packaging instructions data for every item which has a provisioning unit of measure priced equal to or greater than three hundred dollars ($300).

7.12.5 The Contractor shall prepare and submit a Special PHST Consideration Items List, for any items requiring special handling considerations.

7.12.6 For all deliveries to the CFSS the Contractor shall provide for each line item a Unique Item Identifier (UII) which shall be applied in a machine readable barcode format (PDF 417) to the outside of any package of uniquely identified materiel where the Unique Item Description (UID) data matrix is not easily machine-readable through the packaging material (STANAG 2290).

7.13 Initial Provisioning and In-Service Support:

7.13.1 Availability

7.13.1.1 Definition: “Available” – The ISR support is available for the scheduled mission duration. This requires that the AV and any associated launch and recovery equipment are fully functional at the scheduled launch time, and that the System continues to function IAW the specification for the scheduled duration of the mission.

7.13.1.2 When the System is properly operated and maintained by qualified CAF personnel using the spare part and consumable item resources included with the System, and IAW the Contractor provided training, operating and maintenance publications and directives, the System shall, on a (three month) quarterly average:

a. exceed a 90 % availability rating against the locally scheduled flight activities of at least 12 hours per day, seven (7) days per week for deployed operations; and

b. exceed a 90 % availability rating against the locally scheduled flight activities of at least 10 hours per day, five (5) days per week for training activities in Canada.

7.13.1.3 Operational Availability (OA) Calculation.

OA = (EAH - AUH) / (EAH), where

EAH = Expected Availability Hours (h)

AUH= Actual Unavailability Hours (h)

Note: Availability calculations do not include time when the system is not flown due to weather considerations, or due to tasks being cancelled due to CAF operational decisions because the equipment condition would not be the reason the mission was not flown.

Availability calculations do not include time when the equipment is fully operational but there was no planned or scheduled flight activity because there would be no impact on operations.

Availability calculations do not include time when the equipment is non-operational but there was no planned or scheduled flight activity because there would be no impact on operations.

7.13.2 Initial Operational Capability (IOC)

7.13.2.1 To achieve the IOC requirements the overall package of Initial Provisioning Spares, maintenance IAW the Maintenance Plan, and R&O service IAW the ILS and maintenance plans shall include adequate System equipment, spares/support kits and associated follow-on R&O service to conduct a minimum of 1,000 flight hours of operations and training at the following rates:

a. an average of 4,200 hours per year (approximately 350 hours per month) at a deployed operations site for any period that the System is deployed, and

b. an average of 1,000 hours per year (approximately 85 hours per month) for training in Canada.

7.13.3 Full Operational Capability (FOC)

7.13.3.1 For FOC the delivered goods and services shall include all contracted System equipment and the overall package of spares, and Maintenance and R&O service IAW the ILS and Maintenance Plans.

7.13.3.2 If the Contractor underestimates the quantity of spares required to support flight hours, and as a result System availability falls below 90 % during the first 3,000 flight hours due to technical failure rates or attrition the Contractor shall be fully responsible for correcting all applicable parts shortages needed to return to the minimum 90% availability rate. This will not apply to attrition or losses due to operator decisions or errors, or due to hostile action.

7.14 Information Management

7.14.1 Canada will establish an on-line database for the capture and monitoring of SUAS performance history and SUAS operators and maintainers. The Contractor shall monitor the information available to it from the database, and use the database site for receiving information from unit operators and communicating System reports and information as and when tasked by the TA.

7.14.2 As and when tasked/directed the Contractor representative at the Commodity Point shall complete locally provided forms to provide input data for DRMIS.

7.15 Publication Management

7.15.1 The Contractor shall provide proof that it has a Publication Management Plan which at the least is IAW CDRL ILS006, DID ILS-006. The Contractor Publication Management Plan shall include the management and distribution of all operational, technical and training publications, Alert Service Bulletins, Service Bulletins, and Service Information Letters.

7.15.2 The Contractor is responsible for managing and maintaining its own English Language Master Copy of its own training, operations and maintenance publications under the Contractor's own CM and Publication Management processes.

7.15.3 Each GCS for the Systems shall include operator manuals when delivered.

7.15.4 For the complete duration of the Contract the Contractor shall provide, at no cost to Canada, all safety and airworthiness related Contractor initiated alerts and notices which have any impact on the Canadian capability.

7.15.5 For two (2) years after the initial System delivery the Contractor shall provide at no cost to Canada draft copies of any Contractor initiated publication amendments which have any impact on the original Canadian capability. These Contractor documents will be used by Canada to initiate any related bilingual publications amendment work under Canada's Publication Management Program.

7.15.6 The electronic copy of all publications delivered to Canada shall be of a format and quality suitable for extracting text, tables, images and image captions to Microsoft Word 2003 for translation and insertion into the bilingual CAF manuals developed IAW at least the following references:

a. D-01-100-203/SF-000, Preparation of Operating Instructions;
b. D-01-100-204/SF-000, Preparation of Preventive maintenance Instructions;
c. D-01-100-205/SF-000, Preparation of Corrective maintenance Instructions; and
d. D-01-100-207/SF-000, Preparation of Parts Identification List.

7.16 Reproduction and Translation

7.16.1 Canada reserves the right to amend in consultation with the Contractor where required, to translate any documentation into both of Canada's official languages, and to reproduce the bilingual documentation and publications for use within DND and associated Government of Canada organizations.

7.16.2 Canada will be responsible for the translation of publications into the appropriate/ required bilingual format and any consequences related to the use of the translated publications by CAF personnel.

7.17 Operation and Technical Publications

7.17.1 The Contractor shall provide all technical publications and documentation required by CAF technicians/operators in theatre and training locations to enable safe and effective performance of the applicable maintenance tasks and proper System training and operation.

7.17.2 This shall include, but not be limited to, the following:

a. Detailed System setup and teardown procedures, and all System Operating Instructions, System Operating Limitations, System Emergency Procedure documentation/checklists, System Maintenance Instructions manuals, etc., IAW CDRL AW003, DID AW-003, required to support Canada's airworthiness assessment and flight authorization processes and for the conduct of operations;
b. All Technical Publications, including System Maintenance Instructions and supporting manuals and documentation required for System maintenance and logistics support; IAW CDRL ILS007, DID ILS-007;
c. All ICDs, IAW CDRL SE001, DID SE-001, required for Land Command Support System (LCSS) and payload integration tasks;
d. Updates to the above when warranted due to equipment or procedure changes; and
e. If tasked, the Contractor shall provide Publication Management Services, including publication updates on an as required basis, for any technical manuals provided to Canada IAW CDRL ILS007, DID ILS-007.

Note: Training documentation provided to individuals for individual retention while attending Contractor provided training will be deemed to become individual personal property and will not be subject to update by the Contractor once the student leaves the training facility.

7.17.3 Equipment deliverables

7.17.3.1 The Contractor shall provide the Systems and spare parts to support daily operations at two (2) sites.

7.17.3.2 Canada shall have the option to procure two (2) additional Systems.

7.17.3.3 Canada will have the option of procuring additional spares beyond the initial Recommended Spare Parts List (RSPL) deliverables.

7.17.4 Aircraft and Payload Replacements

7.17.4.1 The Contractor shall deliver replacement aircraft and payloads within 60 calendar days of receipt of the Contract amendment from the CA.

7.17.4.2 Attrition replacements for aircraft returned to the Contractor that are Beyond Economic Repair (BER) shall be delivered as complete replacement aircraft delivered under the applicable repair tasks.

7.18 Special Equipment, STTE

7.18.1 The Contractor shall identify all Special Equipment (SE). SE includes General Purpose Test Equipment, Special Purpose Test Equipment, General Purpose Tools, and Special Purpose Tools for Maintenance required for the conduct of any failure analysis and

maintenance activities to be completed by CAF personnel IAW the Contractors maintenance plan for CAF units.

> Note: SE is used to inspect, repair, overhaul, assemble, disassemble, test and otherwise maintain the System. STTE include both Special Purpose Test Equipment and Special Purpose Tools for Maintenance.

7.18.2 The Contractor shall provide and maintain a special tools and test equipment list. The STTE list shall include a list of all STTE necessary to support the capability IAW CDRL ILS008 and DID ILS-008.

7.18.3 The STTE list shall include a list of all tools and test equipment necessary to support the capability IAW the Contractors maintenance plan for CAF units.

7.18.4 The delivery of all STTE purchased from the Contractor by Canada shall coincide with the delivery of the System.

> Note: If a comparable item is already catalogued and in service, or if it is clearly more economically feasible to do so, Canada may opt to buy selected STTE items from alternative sources.

7.19 Training

7.19.1 General

7.19.1.1 The intent is that the Contractor, working in cooperation with CAF instructors, shall provide comprehensive training and a training support package that will serve to direct the initial training for SUAS personnel and to provide the source training documentation for Canada to train all future System Operators and Instructors.

> Note: After the completion of this initial training, the only intended subsequent Contractor involvement in CAF training would be related to the introduction of any System hardware or software changes and the periodic review of instruction standards to ensure that any System performance issues are not a result of training issues. Periodic instruction standards reviews would not be conducted under this acquisition Contract. That work would be support tasks under a separate Contract.

7.19.2 Training Plan (TP)

7.19.2.1 The Contractor shall deliver a TP IAW CDRL T001, DID Trg-001, and the Recommended Training Materials List (RTML) IAW CDRL T002, DID Trg-002.

7.19.3 Training Equipment

7.19.3.1 Equipment and software versions used for training shall be of the same version as will be used on deployed tasks. Training should be conducted using the Systems and ILS support delivered for CAF use.

7.19.4 Training Management

7.19.4.1 Training conducted under the TP shall be detailed enough to enable SUAV personnel to operate, manage and maintain (less level 3 maintenance) the System. However, the sign off of the completed repairs and the return to service documentation for AV repairs shall only be completed by appropriately qualified military maintainers and Contractor representatives.

7.19.4.2 RTML: The Contractor shall provide an appropriate RTML IAW CDRL T002, DID Trg-002, including training materiel, training aids, and equipment deemed appropriate for the establishment of CAF conducted SUAS training. The RTML will be validated during the Contractor provided training.

7.19.4.3 Any physical items on the RTML shall be delivered at least 30 days prior to the start of instructor training.

7.19.5 Training Documentation

7.19.5.1 The Contractor shall provide Training Program Development Documentation packages IAW CDRL T003, DID Trg-003. This shall as a minimum include:

a. Training Task Analysis:
   (1) The Contractor shall provide Task Analysis documentation for SUAS operator tasks, system management tasks, maintenance tasks, and SUAS Instructor training tasks that are required to use, manage, maintain and instruct on the SUAS; and
   (2) The outcome of the analysis of training shall result in the development of performance objectives and performance checks as described by A-P9-050-000/PT-003 Analysis of Instructional Requirements;
b. Performance Objectives (PO):
   (1) The Contractor shall provide Performance Objective documentation and performance checks appropriate for the validation of Contractor training and the intended development of CAF conducted training.
   (2) The Contractor shall define the supporting skills, knowledge and attitudes required to achieve each performance objective.
   (3) The Contractor shall define the scope of training by specifying the minimum level of acceptable performance expected by the individual performing the task for which training was identified.

7.19.5.2 The above information shall be in sufficient detail to enable Canada to define the specification of course content, enabling objectives, lesson plans, training resource list and a course timetable IAW A-P9-050-000/PT-004, Design of Instructional Programs, and A-P9-050-000/PT-005, Development of Instructional Programs, and for the development of training evaluation program IAW A-P9-050-000/PT-007, Evaluation of Learners.

7.19.6 Conduct of Training

7.19.6.1 System Instructor Training

7.19.6.1.1 The Contractor shall provide all System specific training required to qualify 12 personnel from the Royal Regiment of Canadian Artillery School (RRCAS) and 4th Air Defence Regiment Royal Canadian Artillery (4 AD Regt) as System instructors.

7.19.6.1.2 This training shall be completed no later than nine (9) months after Contract Award.

7.19.6.1.3 This training shall take place at RRCAS facilities at CFB Gagetown, Oromocto, New Brunswick.

7.19.6.1.4 Canada will provide appropriate classroom facilities and access to range space for the conduct of training flights.

7.19.6.2 System Operator Training

7.19.6.2.1 Following completion of the instructor training, the Contractor shall supervise and participate in System operator training.

7.19.6.2.2 System operator training shall be conducted by the Contractor and two (2) to three (3) CAF instructors.

7.19.6.2.3 This training shall be conducted at CFB Gagetown.

7.19.6.2.4 The Contractor shall ensure that the RRCAS instructors are providing instruction that fully meets or exceeds the Contractor System operator training standards.

7.19.6.3 Technician Training

7.19.6.3.1 The Contractor shall provide a list of Minimum Core Competencies/Aptitudes to aid in the CAF Technician selection process. Canada will use this information to select technicians for training on maintenance tasks not typically completed by the SUAS operators.

> Note: If the operator skills are deemed appropriate, and if the Contractor normally uses System operators as technicians, then CAF System operators may be selected to fill the role of system technicians.

7.19.6.3.2 The Contractor shall train up to eight (8) CAF personnel to perform level one and level two maintenance procedures. After successfully completing the Contractor training, these CAF personnel will be able to complete level 1 and level 2 inspection and repairs IAW the Contractor's unit maintenance instructions and maintenance publications.

7.19.6.3.3 The Contractor shall train up to eight (8) of the above CAF maintenance qualified personnel as maintenance instructors. After successfully completing the maintenance instructor training, these CAF personnel will be able to provide appropriate maintenance training, and to inspect and certify level 1 and level 2 inspection and repairs performed by CAF personnel IAW the Contractor's unit maintenance instructions and maintenance publications.

7.19.6.3.4 When additional technician training is required Canada will task the Contractor to support training at CFB Gagetown, or if more appropriate Canada will send the System technicians for training at the Contractor facility. This training will be performed under Additional Work Request tasks.

7.19.7 Simulation Requirement

7.19.7.1 Each of the eight (8) SGCS installations shall include a simulation capability as specified under Annex B (SPS) which enables operators to conduct training in the MSVS Shelter or classroom as applicable.

7.19.7.2 The initial simulation training capability shall be provided and working no later than the date of the start of the first CAF Instructor training course.

7.19.7.3 The simulation training solution shall also match the Contractor's own individual training and operator currency standards including launch and recovery operations.

7.19.8 Optional Operator Screening/Selection Service

7.19.8.1 The Contractor should provide an option for a trainee evaluation capability to determine the suitability of trainees for selection and training as System Operators.

7.19.9 Contractor Qualifications and Standards

7.19.9.1 The Contractor shall provide a Summary of Contractor Operator Qualifications & Authorizations, System specific training, training standards and currency requirements for Contractor staff IAW CDRL ILS009, DID ILS-009. This information will be referenced by Canada during the process of developing CAF operator qualifications and periodic currency training requirements. This information will also be subject to confirmation during any audit of Contractor management processes.

7.19.9.2 Updates to these documents shall be provided throughout the Contract period if the Contractor makes any changes to its program that affect airworthiness suitability and training standards.

7.20 Equipment Disposal

7.20.1 The Contractor documentation shall include specific instructions for decommissioning and disposing of any equipment items that are deemed to be Controlled Goods or hazardous materials. (This includes the battery disposal procedures.)

7.20.2 The Contractor documentation shall include recommendations for the decommissioning and disposal of any equipment items that are not specifically covered under section 7.20.1.

7.21 Contractor Travel

7.21.1 Travel at Canada's cost shall only be undertaken with written authorization from the CA.

7.21.2 Expenses related to necessary Contractor travel shall only be reimbursed IAW the applicable Canadian Treasury Board (TB) travel guidelines.

7.21.3 If for the Contractor considers it necessary to change or replace its training supervisor during a course, the Contractor shall be responsible for the resulting additional travel cost.

8 ADDITIONAL IN-SERVICE SUPPORT

8.1 Technical Investigations and Engineering Services

8.1.1 Flight Incident Investigations

8.1.1.1 When requested the Contractor shall provide support to attrition investigations and to CAF Flight Incident investigations in the form of analysis of the event, interpretation of the

telemetry data, analysis of components (if recovered), and provision of relevant historical system failure data. Routine minor landing damage will not require investigation unless collectively they indicate a failure trend in excess of the System specification.

8.1.1.2 Routine minor landing damage will not require investigation unless collectively the System performance data indicates a failure trend in excess of the System specification.

8.2 In-Service / R&O Contract Support

8.2.1 The Contractor shall provide the plans and documents listed below to the In Service Support/R&O Contract. To the extent that they are applicable, the plans shall take effect as part of the support Contract. The intent is that where applicable, the plans will be used by the Contractor for the duration of the support Contract and any applicable support Contract extensions.

SUAS-A SOW	SUAS-S SOW	Plan Name	CDRL	DID
4.1.1	1.3.2 4.1.2	Project Management Plan	PM001	PM-001
4.2.6	4.1.4.6	Meeting Minutes	PM002	PM-002
4.3.1	4.1.5.1 8.18.1	Progress Reports	PM003	PM-003
4.4.1	1.3.2 4.2.1	Contractor Risk Management Plan	PM004	PM-004
5.4.2.1	5.1.1	SUAS Product Description Package	AW001	AW-001
5.4.3.1	5.1.1	System Safety Assessment & Functional Hazard Assessment	AW002	AW-002
5.4.4.1 7.17.2.a	5.1.1	SUAS Flight Manuals	AW003	AW-003
5.4.5.1	5.1.1	SUAS Special Type Certificate Data Sheet (SS/TCDS)	AW004	AW-004
5.4.6.1	5.1.1	SUAS Established Safety Record	AW005	AW-005
5.5.3.1	5.1.1	SUAV Identification Markings Drawings	AW006	AW-006
5.5.4.1	5.1.1	SUAV Certificate of Conformance (CoC)	AW007	AW-007
5.6.2.1	5.1.1	Airworthiness Management Plan (AMP)	AW008	AW-008
6.4.2 6.4.3 7.17.2.c		Interface Control Document (ICD)	SE001	SE-001
6.5.1.1 6.5.1.2	6.4.4.1.1 6.4.4.1.2	Request for Deviations / Waivers	SE002	SE-002
6.6.2 6.6.3	6.4.1	Configuration Management Plan:	SE003	SE-003
6.8.1	4.3.1	Application for Frequency Supportability	SE004	SE-004
6.9.1	1.3.2 6.6.2	Acceptance Test Plan and Report	SE005	SE-005
7.2.1	1.3.2	Integrated Logistics Support (ILS) Plan	ILS001	ILS-001

SUAS-A SOW	SUAS-S SOW	Plan Name	CDRL	DID
	4.4.1 7.1.1.1			
7.3.1		Provisioning Documentation	ILS002	ILS-002
7.6.1.2 7.6.2 7.6.4 7.6.5 7.6.7	7.1.2.1.2 7.1.2.4	Drawing Package and Associated Lists	ILS003	ILS-003
7.8.1	1.3.2 4.5.1 7.1.1.3	Maintenance Plan	ILS004	ILS-004
7.9.1		Recommended Spare Parts List (RSPL)	ILS005	ILS-005
7.15.1	1.3.2 4.6.1	Publication Management Plan	ILS006	ILS-006
7.17.2.b 7.17.2.e		Technical Publications	ILS007	ILS-007
7.18.2		Special Tools and Test Equipment (STTE) List	ILS008	ILS-008
7.19.9.1	4.1.6.1	Summary of Contractor Operator Qualifications & Authorizations	ILS009	ILS-009
7.19.2.1	1.3.2 4.7.1	Training Plan (TMP)	T001	Trg-001

ANNEX D

CANADIAN ARMY
SMALL UNMANNED AIRCRAFT SYSTEM
IN SERVICE SUPPORT (SUAS-S)

STATEMENT OF WORK

{ Including Free-Flow Repair and Overhaul (R&O) }

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Appendix 1 Contractor-Held Inventory Reporting Requirements

Appendix 2 Contractor-Held Inventory Reporting - Templates

1. GENERAL

1.1 Aim

1.1.1 This Statement of Work (SOW) describes the work that is required (the “what”) to sustain a Small Unmanned Air Vehicle (SUAV) system for Intelligence Surveillance Target Acquisition and Reconnaissance (ISTAR) support for the force generation and deployment of Canadian Armed Forces (CAF) units. The method for accomplishing this work (the “how”) is to be proposed by the Contractor, in the context of Canada’s concept of operations and support.

1.2 Overview

1.2.1 This SOW applies to a Small Unmanned Aircraft System (SUAS) that is a component of a Family of Unmanned Aircraft Systems (FUAS) providing intelligence, surveillance, reconnaissance (ISR) and escort capabilities to Canadian Army and other CAF units and sub-units. A complete suite of equipment and software required to establish and sustain operations at one site is henceforth referred to as a “System”.

1.2.2 Functional Areas, Outcomes and Outputs

1.2.2.1 Functional Areas

1.2.2.1.1 As described in this SOW, the Contractor is required to achieve outcomes by producing outputs across five (5) functional areas:

a. Program Management;
b. Engineering Support;
c. Materiel Support;
d. Maintenance Support; and
e. Airworthiness Support.

1.2.2.2 Outcomes:

1.2.2.2.1 The support for the SUAS fleet requires the following outcomes:

a. Provision of timely, accurate airworthy engineering support products and services;
b. Provision of airworthy SUAS and parts when and where required in an effective and efficient manner; and
c. Provision of SUAS maintenance and training support services.

1.2.2.3 Outputs

1.2.2.3.1 The following outputs are required in support of the SUAS:

a. Maintenance/updates of Plans and Reports, or creation of new plans and reports as and when tasked;
b. Provision of Engineering Support Products and Services;
c. Provision of Materiel Support Products and Services;
d. Provision of Maintenance Support Products and Services; and
e. Airworthiness documents updates.

1.3 Scope

1.3.1 The work is complementary to, and in support of the SUAS Acquisition Contract for delivering the capability to the CAF.

1.3.2 Management plans created under the SUAS Acquisition Contract which will then be deemed to be source documents maintained and used for the duration of this support Contract, include the following:

a. Project Management Plan In Accordance With (IAW) Contract Data Requirement List (CDRL) PM001, Data Item Description (DID) PM-001;
b. Contractor Risk Management Plan IAW CDRL PM004, DID PM-004;
c. Acceptance Test Plan IAW CDRL SE005, DID SE-005;
d. Integrated Logistics Support Plan (Materiel) IAW CDRL ILS001, DID ILS-001;
e. Maintenance Plan IAW CDRL ILS004, DID ILS-004;
f. Publication Management Plan IAW CDRL ILS006, DID ILS-006; and
g. Training Plan IAW CDRL T001, DID Trg-001.

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Note: Each CDRL item has a corresponding DID. The CDRLs are at Annex E, Appendix 1, and the DIDs are at Annex E, Appendix 2.

1.3.3 Where applicable work under this SOW will be conducted IAW the appropriate plan or plans.

1.3.4 Technical Investigation And Engineering Support (TIES) tasks and Additional Work Request (AWR) tasks will require the Contractor to provide support from its location, or on specific occasions at sites specified in the individual task SOW. Each such task will require separate authorization.

1.3.5 For component and assembly maintenance purposes, the complete overhaul of equipment returned to the Contractor (except life items that are time expired) is only permitted on a case by case basis when specifically authorized by the Technical Authority (TA). The intent is that repair work will be done and overhaul resorted to only where such is economically and technically justifiable; or where required by technical specifications. The following definitions will apply:

a. Repair: The identification and correction of those specific defects which degrade the performance of an item causing it to function below the specifications;
b. Overhaul: The restoration of an item to its original condition/near life expectancy. It includes the replacement of worn, damaged or life expired parts, the incorporation of approved modifications and the rework of components as necessary;
c. Serviceable Condition: The condition of an equipment which allows it to be used, shipped or held in stores without being subjected to any limitations not applicable to new equipment; and
d. Reliability and Maintainability: The definitions of MIL STD-721 will apply.

1.4 Electronic Document Format

1.4.1 With the exception of ".pdf" files any electronic format document deliverables will be deemed to be non-compliant and will not be accepted as Contract deliverables unless a typical Department of National Defence (DND) workstation can import, read, edit, print and save the document.

1.4.2 Pdf files are only acceptable for those documents that the TA has no requirement to insert comments, to amend the text or data, to extract text or data, or to use the content of the document for other action.

1.4.3 The current DND workstation software suite may use the following applications:

a. Microsoft Access 2003 for database files (*.mdb);
b. Microsoft Excel 2003 for spreadsheet files (*.xls);
c. Microsoft Project 2003 for project tracking/management files (*.mpp) (This is only available to selected DND workstations.);
d. Microsoft PowerPoint 2003 for presentation files (*.ppt);
e. Microsoft Word 2003 for document files (*.doc); and
f. Adobe Acrobat 9.0 for Portable Document Format (pdf) files (*.pdf).

1.5 Mandatory criteria definition

1.5.1 A Mandatory requirement as identified by "shall" indicates that the Contractor is required to complete and deliver the work as stipulated in the applicable section of the SOW. A Contractor is only deemed to be in compliance with the Contract requirements while they are meeting all mandatory criteria.

1.6 Concept of Operations (CONOPS)

1.6.1 The CAF will own and operate the System delivered in accordance with (IAW) Annex B (SPS) specification. This will provide the CAF with a small quantity of North Atlantic Treaty Organization (NATO) STANdardization AGreement (STANAG) 4586 compliant SUAV aircraft and associated equipment that provides Canada with an immediate SUAV deployment and short term sustainment capability.

1.6.2 CAF personnel will conduct operator and CAF technician unit level maintenance for the CAF owned SUAS equipment.

1.6.3 The CAF operators will need to maintain their skills and currency certification for the launch, recovery and maintenance of the CAF owned SUAS. If tasked, the Contractor shall review the applicable procedures and provide technical support to the CAF Instructors who are supervising the operators conducting launch, recovery and maintenance procedures.

1.6.4 The CAF will require Contractor support for Repair and Overhaul work beyond the skills or beyond the duties of the applicable CAF personnel.

1.6.5 SUAS Unit Operations

1.6.5.1 An SUAS Troop, conducting System operations from a Main Operating Base (MOB) site or ship, would have up to 24 personnel. The SUAS Troop would conduct launch, recovery and maintenance activities required to operate two (2) air vehicles (AVs) simultaneously on up to a 24 hour per day, seven (7) day per week (24/7) basis from the SUAS Troop MOB.

1.6.5.2 Combat Teams and support organizations will deploy from the MOB or other local fixed sites to conduct missions as and when required. The SUAS Troop would conduct all in-flight operations from the MOB when the mission requirements are best met by support from the MOB site.

1.6.5.3 For mobile Combat Team operations the SUAV would still be launched and recovered at the MOB, but the in-flight control can be provided by an SUAS Detachment (Det) of two (2) operators accompanying the Combat Team. For those operations the SUAS Det is an integral part of the Combat Team and all transportation, support and protection is provided within the Combat Team resources. The SUAS Det will operate from Combat Team vehicles, and will operate the System from static positions, and when required they will monitor the SUAV data while the Combat Team vehicle is on the move.

1.6.6 SUAS Maintenance

1.6.6.1 Canada's maintenance concept is comprised of up to three (3) levels:

a. Field Level / First Line Operator Maintenance;
b. Unit Technical Maintenance; and
c. Contractor R&O.

1.6.6.2 Field Level / First Line Operator Maintenance: The CAF System operators will perform visual inspections and tests, run System self-diagnostics, and do repairs IAW Contractor approved unit maintenance procedures using any required Special Tools unique to the SUAS and the consumable and repairable items held in unit repair parts stock.

1.6.6.3 Unit Technical Maintenance: Appropriately trained System operators and CAF technicians will complete the inspection and repairs IAW the Contractor's unit maintenance instructions and maintenance manuals.

1.6.6.4 Contractor R&O: The Contractor level maintenance which shall be performed by the Contractor includes repairs, upgrades, modifications and repair by exchange/replacement.

2. REFERENCES

2.1 Applicable reference acronyms, definitions, publications, and documents are listed at Annex F

3. GENERAL REQUIREMENTS

3.1 Materiel Transportation Responsibilities

3.1.1 The Contractor shall be responsible for the transportation of materiel being delivered to 7 Canadian Forces Supply Depot (CFSD) Edmonton, and to the SUAS Commodity Point at CFB Gagetown. The Contractor shall be responsible for the transportation of materiel being shipped from the Commodity Point to the Contractor facility for repair or other work such as technical evaluations or investigations. If tasked the Contractor shall also be responsible for the transportation of material being delivered to additional sites such as a Logistic Hub operated in support of a deployed operation.

3.2 Hazardous Materials (HAZMAT) and Products

3.2.1 The Contractor shall comply with the Hazardous Products Act. This includes the requirement that the Contractor shall provide the required bilingual Material Safety Data Sheets (MSDS) for the shipment of any chemical or material deemed to be HAZMAT.

3.2.2 Treasury Board Hazardous Substance Directive and Canada Labour Code Part II dictate that the least hazardous materials should be used at the workplace. Therefore, the Contractor

shall strive to use the least hazardous product that meets the requisite performance requirements, and to avoid the use of controlled products.

3.3 Canadian Transportation of Dangerous Goods Act

3.3.1 The Contractor shall comply with the Canadian Transportation of Dangerous Goods Act. This includes the requirement that the Contractor shall provide all required labels for any shipment of dangerous goods.

3.4 Environmental Health and Safety (EHS) Management

3.4.1 The Contractor shall comply with the DND general safety program as detailed below, when work is performed at government owned facilities:

a. A-GG-040-004/AG-001 - General Safety Program - Volume 1, Policy and Program;
b. C-02-040-007/TS-001- General Safety Precautions;
c. C-02-040-009/AG-001- DND General Safety Standards; and
d. Canada Labour Code, Part II.

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3.4.2 The Contractor shall have an Occupational Health and Safety Management System (OHSMS), which is consistent with the principles presented in Occupational Health and Safety Assessment Series (OHSAS) 18001, at its facilities located in Canada.

3.4.3 The Contractor's activities shall fully comply with the Canadian Environmental Protection Act and relevant environmental protection statutes and regulations whenever and wherever the activities are conducted in Canada.

3.5 Green Procurement

3.5.1 Canada is committed to greening its supply chain. In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to acquire products and services that have a lower impact on the environment than those traditionally acquired. Assessing the environmental impact of a product or service involves considering the whole life cycle of the product or service, from the extraction of the raw material to its disposition at the end of its useful life.

4. PROGRAM MANAGEMENT SERVICES

4.1 Program Management/Control

4.1.1 The Contractor shall provide program management, including a Program/Project Manager (PM) and any support staff necessary to manage the Contractor work under this program. Canada will not provide office/work space for the PM and the associated support staff. For the period that the acquisition and this support Contract are both in effect the PM established under the acquisition program shall be the joint PM of both Contracts.

4.1.2 The Project Management Plan (PMP) (CDRL PM001, DID PM-001) generated and approve under the SUAS Acquisition Contract shall be adopted by the in-service support contract, and the work shall be managed IAW that PMP. This includes all requirements for maintaining schedules, hosting or attending meetings, producing minutes for meetings, delivering reports, delivering updates to information and documentation related to SUAS

airworthiness and operating frequencies when applicable, and ensuring its personnel are trained and qualified to deliver support IAW the Contract.

4.1.3 The Contractor shall manage the project in accordance with the approved PMP.

4.1.4 Meetings

4.1.4.1 The Contractor shall provide support and assistance for Contract Progress Review Meetings (PRMs).

4.1.4.2 PRMs shall alternate between the Contractor's facilities and Canada`s facilities in the region of Ottawa, Canada, or such other reasonable location as Canada requests in writing.

4.1.4.3 Videoconferencing and teleconferencing should be used when practical.

4.1.4.4 The Contractor shall provide appropriate representation at Contract PRMs, to be held with Canada at the following designated intervals:

a. Initial program Kick-off meeting at the Contractor facility within four (4) weeks of Contract Award,
b. Annual PRMs for the duration of the Contract,
c. Additional PRMs at Contractor facility if or when required, and
d. Tele-conferences if deemed necessary by Canada.

4.1.4.5 When the Contractor has more than 48 hours lead time before a meeting the Contractor shall provide a one (1) page meeting agenda to the TA.

4.1.4.6 The Contractor shall provide minutes for each meeting, videoconference and tele-conference IAW CDRL PM002, DID PM-002.

4.1.4.7 During each meeting the Contractor shall provide to the TA, in the appropriate electronic format and media, copies of any Presentation Packages as presented at the meeting.

4.1.4.8 The draft electronic format presentations for Quarterly PRMs shall be delivered one week prior to the meeting.

4.1.5 Reports

4.1.5.1 The Contractor shall submit progress reports IAW CDRL PM003, DID PM-003 as and when required.

4.1.6 Contractor Qualifications and Standards

4.1.6.1 The Contractor shall ensure that at the minimum its Field Service Representatives are trained and qualified IAW the Contractor standards as detailed IAW CDRL ILS009, DID ILS-009.

4.2 Contractor Risk Management

4.2.1 As and when appropriate, and as a minimum following the requirements of CDRL PM004, DID PM-004, the Contractor shall track and report to Canada on any risks with a potentially serious impact on the CAF capability, and any new risks identified that affects System airworthiness or airworthiness risk calculations.

4.3 Frequency Management and Supportability

4.3.1 If there are any changes to the Radio Equipment for the System the Contractor shall complete and submit the updated form DND 552, Application For Frequency Supportability,

IAW CDRL SE004, DID SE-004, or the United States Department of Defence equivalent, accompanied by supporting documentation to enable Canada to assess the impact on SUAS operations. There shall be separate forms covering each of the following sub-systems for the aircraft and the Ground Control Station (GCS):

a. Transmitter Equipment Characteristics,
b. Receiver Equipment Characteristics, and
c. Antenna Equipment Characteristics.

4.4 Integrated Logistics Support Plan

4.4.1 Where applicable the original ILS plan delivered IAW CDRL ILS001, DID ILS-001, and its sub-component plans shall be used for the routine SUAS support work under this SOW. As and when appropriate the Contractor shall propose updates to the ILS Plan.

4.5 Maintenance Plan

4.5.1 Maintenance will be conducted IAW the Contractors maintenance plan delivered IAW CDRL ILS004, DID ILS-004. In the event that there is any change to equipment, software or procedures that requires an amendment to the maintenance procedures the Contractor shall inform Canada of the changes as early as is practical. The changes shall only become effective the date Canada publishes an amendment to the applicable maintenance publication, or issues a service bulletin to the applicable CAF operator units.

4.6 Publication Management Plan

4.6.1 The Contractor shall be responsible for maintaining its publications IAW its Publication Management Plan as provided under CDRL ILS006, DID ILS-006. The Contractor remains responsible for informing Canada of any change to the technology or software that is a result of its support to other SUAS operators or a result of configuration changes. Note that configuration changes for Canada's equipment shall only be allowed on completion of the appropriate engineering change approval process by Canada.

4.7 Training Plan

4.7.1 If tasked, the Contractor will provide support to CAF training conducted IAW the Training Plan. If tasked the Contractor shall review and recommend updates to the Training Plan delivered IAW CDRL T001, DID Trg-001.

4.8 Office Services

4.8.1 The Contractor shall perform the secretarial and clerical work necessary to carry out the terms of this contract with respect to the preparation, filing and transmission of all forms, reports and correspondence, relating to the movement, accounting, storage, repair, overhaul, quality control and investigation of materiel covered by this contract.

4.9 Plant Shutdown/Vacation Period

4.9.1 During plant shutdown and/or vacation periods, the Contractor shall ensure that adequate facilities/personnel are available to ensure the satisfaction of High Priority Requirements (HPRs). If contractor personnel are not on site during shutdown, a list of names and home phone numbers of those Contractor personnel to be contacted during plant closure shall be provided to the National Defence Quality Assurance Region (NDQAR). It is the Contractor's responsibility

to ensure that personnel are available to satisfy Priority Repair Request (PRR) requirements once identified.

5. AIRWORTHINESS

5.1 Airworthiness Supporting Documentation

5.1.1 Airworthiness clearance process documentation submitted IAW CDRLs AW001 through AW007, DIDs AW-001 through AW-007, and other applicable CDRLs shall be updated if or as required during the Contract. This includes, but is not necessarily limited to, the following:

a. The Contractor shall provide notification of any planned changes to its Quality Management System;
b. The Contractor shall provide notification of any planned changes to its Configuration Management System(s);
c. If requested, or if significant events warrant an update, the Contractor shall provide annual updates to its System Statistics (loss rate, incident rate, availability and reliability claims). This information could be required during preparation for the Airworthiness Review Board meetings every May and/or November;
d. If requested the Contractor shall provide annual updates to its Product Description Package (PDP) IAW CDRL AW001, DID AW-001;
e. If requested, or if significant events warrant an update, the Contractor shall provide annual updates to its System Safety Assessment and Functional Hazard Assessment (if any such documents exists) IAW CDRL AW002, DID AW-002 (if applicable); and
f. If requested, or if significant changes warrant an update, the Contractor shall provide annual updates to System Flight Manuals (including aircraft operation instructions, standard manoeuvre manuals and checklists) IAW CDRL AW003, DID AW-003.

5.2 In-Service Support

5.2.1 General

5.2.1.1 The validity of the Technical Airworthiness Clearance (TAC) issued by DND is conditional on the continued airworthiness of the contracted services and associated equipment used to fulfil the contractual requirements. The contractor shall be required to provide DND with a reasonable assurance that the level of safety can be maintained for the duration of the contract and option periods.

5.2.2 Airworthiness Management Plan (AMP)

5.2.2.1 The contractor shall maintain and follow the AMP IAW CDRL AW008, DID AW-008. The contractor shall meet the requirements of this plan in order to maintain the Technical Airworthiness Clearance of the SUAVs and the SUAS as a whole. Proposed changes to the AMP shall be submitted to the TA for TAA approval.

5.2.3 Technical Airworthiness Authority Oversight

5.2.3.1 The contractor shall provide access to contractor facilities to perform the in-service support system evaluation and any audits, review or evaluations conducted during in-service

SUAS operations. Where the TAA identifies that an audit, review, or evaluation is required, the following support will be needed from the organization being assessed:

a. On-site support to the audit team, including office space to conduct meetings and interviews;
b. Access to qualification and authorization files of staff supporting the SUAS;
c. Access to work orders and other technical data generated within the organization supporting the SUAS;
d. Access to engineering and technical information used in support of the continued airworthiness of the SUAS;
e. Access to the organizations records and reports that support the Quality Management System registration;
f. Access to organizational manuals, procedures and instructions used to support the SUAS;
g. Technical and management staff to support DND auditors; and
h. Preparation and implementation of Corrective Action Plans, when required, that are acceptable to the TAA.

5.2.3.2 It is estimated that annual DTAES TAC audit team visits will involve up to four (4) specialists working a total of up to 140 hours during a one (1) week period to conduct all required interviews and documentation reviews.

5.2.3.3 It is estimated that the annual Operational Airworthiness Clearance (OAC) audit team visit will involve up to three (3) specialists working a total of up to 100 hours during a one (1) week period to conduct all required interviews and documentation reviews.

5.2.3.4 The TAC and OAC team visits will not necessarily be scheduled for the same dates.

5.2.4 Engineering Support Services

5.2.4.1 The Contractor shall ensure that SUAV Original Equipment Manufacturer (OEM) approved engineering support services are available for the duration of the Contract.

5.2.4.2 To maintain the System suitability for certification or flight authorization within the terms specified in or associated with the SOW, the Contractor shall submit any applicable updates to documentation provided to Canada that demonstrates satisfactory proof of the design, production and quality assurance processes. The information shall conform to ISO 9001:2008 Quality Management System Requirement and ISO/IEC 90003 Software Engineering - Guidelines for the application of ISO 9001:2000, to computer software.

5.2.5 Airworthiness Manager

5.2.5.1 The Contractor shall have and shall identify an airworthiness manager that is the point of contact for all airworthiness related problems. This person shall be the point of contact for reaching the OEM for airworthiness issues.

5.3 Markings

5.3.1 Canada will maintain the aircraft registration IAW the Aeronautics Act requirements. On receipt of the aircraft serial number information Canada will assign registration numbers to each aircraft.

6. SYSTEM ENGINEERING

6.1 General SUAS Requirements

6.1.1 The Contractor's System Engineering services provided to Canada under this program shall focus on sustaining Canada's flight authorization requirements. In this context, the Contractor shall employ system engineering, testing and production procedures that fully comply with all system specifications and standards requirements of the System, as described in Annex B (SPS).

6.1.2 As and when any need arises during the term of the Contract, the Contractor shall execute all required system engineering tasks to design, develop and integrate any system changes needed to maintain the System performance IAW Annex B (SPS) items in effect or agreed to at Contract award or as modified by any applicable Contract amendment.

6.2 Technical Issue Resolution

6.2.1 The Contractor shall, on an as required basis, resolve any identified technical or Contractor initiated procedural problems with the original contracted baseline SUAV capability. The Contractor shall provide technical advice and engineering support to design, develop, integrate, manufacture, install, test, qualify, certify and support the System as per the specifications and scope of the Contract or as changed by any completed tasks and approved configuration changes in effect at the time a problem is identified.

6.3 Technical Investigations and Engineering Support (TIES)

6.3.1 Technical advice requiring drawings or preparation of documented answers, and engineering tasks such as integrating new payloads and managing component obsolescence, shall be provided as and when required under TIES tasks.

6.3.2 The Contractor shall provide quotes and process proposed TIES task documentation IAW the applicable contract terms and conditions.

6.3.3 The Contractor shall only perform the work and provide the services specified in any approved TIES task on receipt of the appropriate approved contractual documentation (DND 626).

6.4 Configuration Management (CM)

6.4.1 The Contractor shall be responsible for CM for the SUAS hardware and software the Contractor provides for this program, and shall conduct CM activities IAW the approved CM Plan IAW CDRL SE003, DID SE-003.

6.4.2 The Contractor shall not introduce configuration or system support changes to Systems providing ISR capabilities to Canada without the prior approval of the TA in the form of an Engineering Change Proposal (ECP) approval. The Contractor shall submit an ECP IAW MIL-HDBK-61A, Configuration Control or an equivalent ECP process for each proposed configuration change. If Canada accepts the proposal the ECP will be signed off and returned to the Contractor for action/implementation, and Canada will raise a task for the applicable work.

6.4.3 The Contractor shall follow the engineering release system put in place for the SUAS Acquisition Contract for configuration documentation to issue any required material change notices and updated configuration documentation IAW D-01-100-215/SF-000.

6.4.4 Request for Deviations/Waivers

6.4.4.1 The Contractor shall observe standard CAF practices for any temporary or permanent change from baseline system specifications for new System components developed and placed in service on equipment used for this contract.

6.4.4.1.1 The Contractor shall submit a Request for Deviation IAW CDRL SE002, DID SE-002 when specific replacement or repaired components will not meet the contracted performance specifications for a specific period of time.

6.4.4.1.2 The Contractor shall submit a Request for Waiver IAW CDRL SE002, DID SE-002 when a proposed permanent change will affect the System compliance to Annex B (SPS).

6.5 Obsolescence Management

6.5.1 The Contractor shall maintain System airworthiness standards and the applicable documentation for the baseline System for the term of the Contract by implementing any necessary obsolescence management and resulting technology updates.

6.5.2 Additional system engineering support for equipment not included in the original contracted System baseline shall be separately negotiated as and when required for the applicable equipment customization and testing.

6.6 System Evaluation and Acceptance Testing

6.6.1 At any time that a failure trend is detected, or if the nature of specific component or assembly repairs warrants such action, equipment being returned to Canada may be subjected to an appropriate form of acceptance testing.

6.6.2 If tasked, the Contractor shall update the Acceptance Test Plan (ATP) delivered IAW CDRL SE005, DID SE-005.

6.6.3 The Contractor shall conduct any appropriate Acceptance Testing on any additional new Systems and new or repaired equipment prior to delivery to Canada.

6.6.4 The Contractor shall inform Canada of the acceptance testing dates and locations early enough to enable Canada to coordinate the required visit clearances and cost effective travel and accommodations if Canada decides to attend the acceptance testing.

7. INTEGRATED LOGISTICS SUPPORT (ILS)

7.1 ILS Plan

7.1.1 General:

7.1.1.1 The Contractor shall update and use the ILS Plan provided IAW CDRL ILS001, DID ILS-001.

7.1.1.2 Within the ILS Plan the Contractor shall ensure the provision of Supply Support in the form of consumable and repairable spare parts on an as required basis to sustain the System reliability and availability.

7.1.1.3 Within the ILS Plan the Contractor shall ensure the provision of Maintenance Support IAW the maintenance concept and the Maintenance Plan delivered under CDRL ILS004, DID ILS-004.

7.1.1.4 The Contractor shall ensure it is capable of providing additional Field Service Representative (FSR) personnel to provide System support within 60 days of receipt of a support AWR task.

7.1.1.5 Local Support

7.1.1.5.1 The Contractor shall establish a Commodity Point for in-service support operation in a CAF facility to be provided at Canadian Forces Base Gagetown to support training and maintenance. This facility shall be manned on an as tasked basis by an FSR qualified to perform and approve all levels of technical maintenance support.

7.1.1.5.2 The Contractor shall also provide additional in-service support at other CAF work sites to support training and maintenance on an as and when tasked basis. When these tasks are conducted in Canada or the United States at a time when there is no scheduled flight activity at CFB Gagetown, if tasked the FSR from CFB Gagetown will deploy to the task site.

7.1.2 Drawings, Associated Lists and Cataloguing

7.1.2.1 The SUAS and components, including reusable shipping/storage containers supplied by the Contractor that will be held by Canada in support of SUAV operation, training and maintenance activity, shall be appropriately catalogued.

7.1.2.1.1 Where the item has already been catalogued under a NATO Stock Number (NSN), the Contractor shall only be required to provide information which identifies the items to Canada's satisfaction and enables Canada to adopt the existing Stock Number.

7.1.2.1.2 Where items have not already been catalogued the Contractor shall provide IAW CDRL ILS003, DID ILS-003, cataloguing documentation and information including drawings which conform to the standards of D-01-400-001/SG000, Engineering Drawings Practices.

> Note: Standards for engineering drawings are described in D-01-400-001/SG000, Engineering Drawings Practices. The "levels" of drawings is described in D-01-400-002/SF-000 Levels of Engineering Drawings, Engineering and Associated Lists.

7.1.2.2 The cataloguing information for each item/assembly shall state whether the item is a Controlled Good. If applicable the information shall identify if the item/assembly is specifically subject to Controlled Goods regulations. If the Drawing or Associated List does not already include the Controlled Goods information then the information may be provided separately. Controlled Goods identification requirements include the following:

a. The Contractor shall identify for US origin controlled goods also known as defence articles, the United States Munitions List (USML) Category and paragraph that apply IAW the international traffic in arms regulations (ITAR);
b. The Contractor shall identify for US origin dual use, the Export Control Classification Number (ECCN) of the Commerce Control List that applies;
c. The Contractor shall identify for Canadian origin items, Canada's Export Control List (ECL) articles that apply IAW the Schedule of the Defence Production Act (DPA);
d. The Contractor shall identify for any other country than Canada or the United States of America (USA), the category and article of the Wassenaar Control List that applies;

e. The Contractor shall identify any components or sub-components that are specifically designed or modified for military purpose, and not spared as Controlled or Non-Controlled Goods to facilitate the production of Demilitarization Instructions;

f. For items of US or Canadian origin that are going to be catalogued, the Demilitarization Code (DMC) shall be indicated in the Provisioning Parts Breakdown (PPB);

g. Marking of Controlled Goods packaging shall be done IAW the Transportation of Dangerous Goods Act, the Hazardous Products Act and Controlled Products Regulation; and

h. The Contractor shall be responsible for the functions associated with Controlled Goods Management of the Defence Production Act (DPA) requirements for SUAS equipment moving across international borders.

7.1.2.3 The Contractor shall enable Canada to access the appropriate Level 1 to Level 3 drawings at the Contractor facility with seven (7) calendar days notice when required for any specific investigation involving safety or airworthiness issues or unresolved technical problems.

7.1.2.4 The Contractor shall deliver to Canada a Level 3 drawing package, IAW CDRL ILS003, DID ILS-003, which conforms to the standards of D-01-400-001/SG000, Engineering Drawings Practices, for any special purpose items developed at Canada's cost under a TIES or AWR task.

7.2 Supply Support

7.2.1 Additional Spare parts and Parts Replacements

7.2.1.1 The Contractor shall provide Canada the option to procure additional spare parts beyond the initial SUAS Acquisition Contract deliverables.

7.2.1.2 The contractor shall generate, assign, and install Unique Item Identifiers (UII) to all items delivered to DND. The UIIs shall be in a machine readable form on the outside of the material or on the package when not easily accessible. The implementation of this requirement shall be as mandated by A-LM-505-702/JS-001 and IAW STANAG 2290.

Note: Applying the UII marking to individual consumable items delivered in bulk quantities within shipment packages is not mandatory.

7.2.2 Transaction Documentation

7.2.2.1 For items delivered to the Contractor via the CFSS, the Contractor's Document Control Group (DCG) facilities shall file and retain the following auditable transaction documentations by applicable account Repairable Material Account (RMA) or Repair Shop Account (RSA) warehouse either by Stock Code or by Requisition Number, in accordance with Part 3 of A-LM-184-001/JS-001:

a. Stock Code sequence followed by requisition number; or

b. Requisition number.

7.2.2.2 For items delivered to the Contractor outside of the CFSS, the Contractor's Document Control Group (DCG) facilities shall file and retain auditable transaction documentations,

maintaining records to the same standards as for 7.2.2.1, by Part Number and Requisition Number.

7.2.3 Consumable Items – Local Delivery

7.2.3.1 For routine maintenance supported from the FSR operated Commodity Point the sequence of events for delivery of consumable items shall be as follows:

a. Canada's representative presents work order documentation which clearly and unambiguously indicates which Aircraft, GCS, Launch/Recovery System, or other applicable item the consumable stock is required for;
b. The FSR confirms if the consumable item is authorized for release to the unit by checking existing pre-authorized expenditure lists. If the item is not on a pre-authorized release list the FSR shall request authorization by contacting the RA;
c. If release authorization is confirmed, the FSR shall ensure the requirement and transactions are initiated and appropriately tracked and complete appropriate local documentation forms with the information required by DND for input into DRMIS;
d. Canada's representative signs acceptance for the consumable item, the item is then passed to Canada's representative, and that individual departs with the item. Canada is deemed to have accepted the item when it is physically passed to Canada's representative;
e. The FSR retains a copy of all applicable documentation for transaction verification/audit purposes; and
f. The FSR ensures the invoice action is initiated as and when appropriate.

7.3 Contractor Supply Accounting

7.3.1 Materiel held on Contractor Repair Parts Account (CRPA), RSA and RMA shall be accounted for as per the Canadian Forces Supply System (CFSS) automated procedures in accordance with A-LM-184-001/JS-001. Government Furnished Overhaul Spares (GFOS) and Accountable Advanced Spares (AAS) will be accounted for in either a manual or an automated system. Regardless of the system used, the Contractor shall maintain an audit trail acceptable to DND. Further, any automated or manual materiel accounting system shall first be approved by the RA. Supply accounting records for DND materiel shall be maintained separate from other company records.

7.4 DND Publications

7.4.1 General procedures with respect to management of publications are contained in PART 11 of A-LM-184-001/JS-001. The Contractor shall document requirements for publications and submit to the NDQAR. The Contractor shall develop procedures to control all DND publications in their possession and be responsible for amending all DND publications in his custody. The Record of amendments shall be maintained as indicated in the applicable area of each publication.

7.4.2 Unless otherwise specified, publications may be copied and/or extracts taken from them. As these copies/extracts are not subject to follow-up amendment action, they are not valid for use as a reference document and shall be stamped "FOR INFORMATION ONLY". Contractors shall ensure that any classified documents are provided with the appropriate security, consistent with the provisions of A-SJ-100-001/AS-000.

7.4.3 The Contractor shall respond to any request for "verification of publication holdings" which may be requested periodically by DND.

7.5 Management Of DND-Owned Spares

7.5.1 Canada will procure a Repairable Spares Bundle for 1,000 Flight Hours and a Consumable Spares Bundle for 1,000 flight hours for the System under the separate SUAS Acquisition Contract. Appropriate quantities of these spare parts will be issued to the Contractor. Any decision to procure additional repairable assemblies and consumable stock would be based on experience gained during System operation.

7.5.2 On receipt of TA approval the Contractor shall, on an as required and as available basis, issue spare parts from this account to units to replace unit equipment returned to the Contractor for repair.

7.5.3 The Contractor shall be responsible for:

a. determining the requirement for DND owned repairable spares,
b. obtaining the spares when DND approval is granted,
c. maintaining custody of the spares,
d. accounting for the spares in an approved manner for use on the Repair and Overhaul (R&O) repair line and for meeting unit equipment demands, and
e. for the disposal (when so directed) of the spares in accordance with A-LM-184-001/JS-001.

7.5.4 Spares shall be used in the following order:

a. Government Furnished Overhaul Spares (GFOS);
b. Contract Issue Spares (CIS) (if applicable);
c. Accountable Advance Spares (AAS) (if applicable); and
d. Contractor Furnished Materiel (CFM).

7.5.5 The Contractor shall be responsible for maintaining custody of repaired spares, accounting for the spares in an approved manner, for items repaired and placed in Contractor stock pending demands from units.

Note: The Contractor is responsible for its own stock levels and accounting procedures for the consumable items, repairable items and repair parts held at its site in order to support the 90% System availability and repair turnaround time requirements. Cost associated with acquiring and managing this stock is a Contractor responsibility.

7.6 Spares Review

7.6.1 If applicable, in conjunction with the stocktaking schedule, the Contractor shall carry out a review of CIS and GFOS to determine if holdings of any particular item:

a. exceed the economic stock retention level;
b. have become surplus to requirements as a result of a modification, disposal, obsolescent or transfer of the major equipment;

c. are no longer fit for use in the R&O of DND equipment;

d. has become surplus to requirement as a result of removal of the end item from the Selection Notice and Priority Summary (SNAPS);

e. has become redundant because of a modification change notice, product improvement, etc...;

f. is a GFOS item which is a catalogued item which should have been transferred to CIS.

7.6.2 The Contractor shall contact the RA for disposition instructions in the event it becomes apparent that the Contractor is holding excess stock of spares owned by Canada.

7.7 Stocktaking

7.7.1 The Contractor shall initiate and complete a one hundred per cent (100%) manual stocktaking of RMA, RSA, CRPA(CIS), GFOS and AAS as a minimum once every two (2) years in accordance with PART 6 of A-LM-184-001/JS-001.

7.8 Selection Notice Observation Message (SNOM)

7.8.1 Contractors wishing to make observations on information contained in the SNAPS, including Maximum Repair Cost (MRC), shall do so by submitting their observations using the Selection Notice Observation Message (SNOM) in accordance with PART 2 of A-LM-184-001/JS-001.

7.9 Loss Or Damage To DND Materiel

7.9.1 The Contractor shall report to the NDQAR, or to the RA as applicable, all instances of loss or damage to DND owned materiel in his custody within two (2) working days of confirmation of its discovery.

7.9.2 The Contractor may be authorized to make repairs to DND-owned equipment on loan. All requests shall be forwarded to the RA for approval. If applicable, if the Contractor is authorized to repair damaged DND materiel, he shall notify the NDQAR before any repair commences to enable adequate quality assurance of the repair.

7.9.3 Loss or damage of materiel in transit shall be actioned in accordance with Part 8 of A-LM-184-001/JS-001.

7.10 Scrap - Custody & Disposal

7.10.1 The Contractor shall safeguard, control, and dispose of the scrap materiel in accordance with Part 7 of A-LM-184-001/JS-001.

7.11 Preservation And Packaging

7.11.1 All packaging for items delivered to the CAF shall meet with best commercial packaging standards, meeting environmental conditions and clearly identifying both quantity and part number on both inner pack and outer pack, and comply with the packaging requirements specified in Annex B (SPS), and in D-LM-008-036/SF-000 Department of National Defence Minimum Requirements For Manufacturer's Standard Pack. Further guidance on packaging is included in D-LM-008-001/SF-001 Methods of Packaging and D-LM-008-002/SF-001 Specification for Marking for Storage and Shipment.

7.11.2 When multiple line items are packed in a single container, a listing of all line items shall be clearly affixed to the outer pack and a separate list provided inside the outer pack detailing the inventory of the larger outer pack.

7.12 Preservation And Packaging Failure

7.12.1 Equipment processed through the CFSS damaged due to preservation and packaging failures in shipments shall be reported to the NDQAR using form CF 777, Unsatisfactory Condition Report (UCR), supported by photographs in accordance with CFTO C-02-015-001/AG-000.

7.12.2 Equipment processed outside of the CFSS damaged due to preservation and packaging failures in shipments shall be reported to the RA using form CF 777, Unsatisfactory Condition Report (UCR), supported by photographs in accordance with CFTO C-02-015-001/AG-000.

7.13 Reusable Containers

7.13.1 When it is appropriate and the work is approved by the RA, the Contractor shall inspect, repair and/or repaint reusable containers. If a requirement to repair, replace or provide a reusable container or other packaging materiel has been identified, it will become a charge against the R&O contract at a negotiated rate to be listed in the "basis of payment" and on the repair work order.

7.13.2 All use of wood or organic materials shall be subject to applicable Canadian and international standards, including International Standards for Phytosanitary Measures (ISPM) No.15, and The Canadian Wood Packaging Certification Program.

7.14 Transportation

7.14.1 The Contractor shall be responsible to action all transportation requirements in accordance with PART 8 of A-LM-184-001/JS-001.

7.15 Customs & Excise

7.15.1 If the Contractor sub-contracts to an out of country location, the Contractor is responsible for the preparation of all the necessary customs documentations. DND's Customs Brokers shall not be utilized unless specifically authorized in writing by the RA.

8. MAINTENANCE SUPPORT

8.1 General

8.1.1 All maintenance activities shall be tracked within the Defence Resource Management Information System (DRMIS). With the exception of new item delivery from the Contractor to Canada, all support related movement of components between Canada and the Contractor shall be recorded and tracked within DRMIS. The Contractor at the Commodity point at CFB Gagetown shall provide appropriate input information on locally produced forms for DND staff to use to input data into DRMIS.

8.2 Support Process Concept Overview

8.2.1 When warranty or other equipment failures occur at the unit level that are beyond the operator and unit technician maintenance repair level, the unit will submit reports to the Contractor stating what components are required to return their Systems to a 100 % serviceable

state. The unit will return unserviceable repairable items to the Contractor using appropriate DND procedures.

8.2.2 On approval from the TA and the RA (or the CA if the cost exceeds the RA's authority level) the Contractor shall deliver the required components and assemblies to the CFSS as required to sustain or the System availability at or above the required 90% minimum.

8.2.3 To achieve the timely shipment of consumable items and spare parts to the CAF units the Contractor shall first establish an appropriate inventory at its Commodity Point facility at CFB Gagetown no later than the date of the start of the first training course in Canada.

8.2.4 The Contractor shall track any new parts cost and applicable shipping and handling costs to include the costs in to the monthly support service invoice.

8.2.5 When delivered to the CAF units the items become CAF property.

8.2.6 On receipt of any items returned through the CFSS or any other approved DND delivery process the Contractor shall undertake repairs IAW the terms of the System warranty or this In-Service Support Contract SOW, as applicable.

8.2.7 On completion of repairs to CAF owned items the Contractor shall place the item in its physical inventory, ready to fill the next order from a CAF unit.

8.3 R&O Process

8.3.1 The Contractor shall repair and/or overhaul only those items for which he has received authorization from the Requisition Authority (RA) in accordance with either an established list of pre-authorized repairs or an individual authorization specific to individual components or assemblies that are not on the pre-authorized list at the time the item is received. The Contractor shall conform to such procedures as are advised in this SOW, A-LM-184-001/JS-001, and applicable reference documents/publications related to the Contractor management of DND equipment and stores in its possession. DND reserves the right to exercise surveillance over all applicable aspects of the Contractor's supply operation in Canada. Repair priority shall be "Routine" unless otherwise stipulated.

8.3.2 For complete SUAV system support the R&O work shall be processed IAW A-LM-184-001/JS-001, Special Instructions – Repair and Overhaul Contractors.

8.3.3 Exception to A-LM-184-001/JS-001:

8.3.3.1 For repairs conducted at the Contractor Commodity Point facility at CFB Gagetown, when it is expedient to do so, and the Contractor has the appropriate serviceable item in stock, the Contractor representative and the Unit technicians shall, when appropriate, conduct a "Repair by Exchange" process where the unserviceable CAF held items are physically exchanged for serviceable items from the Contractor held stock. This circumvents the process delays inherent in processing returns and shipments through the CFSS. However, all such repair procedures and component exchanges shall still be properly recorded and tracked within DRMIS.

8.4 R&O Item Receipt

8.4.1 Upon receipt of DND equipment, the Contractor shall:

a. identify the equipment and ensure authority to repair (IAW the pre-authorized repairable list or a specific authorization document from the RA);

b. Open a work order within 48 hours of delivery to Contractor;

c. carry out a physical check to ensure that the item is complete and is in accordance with the accompanying vouchers;

d. complete receipt documentation, including any adjustment transactions, work order number; and

e. action warranty materiel.

8.4.2 If the Contractor is missing any information or documentation, he shall request it through the RA and/or the TA.

8.4.3 For those repairs where the basis of payment is other than firm fixed price, and based upon available information and/or inspection of the item, the Contractor shall determine the extent of work required, prepare a cost estimate, and if cost to repair is below the maximum repair cost (MRC), proceed with the repair. Whenever cost to repair threatens to exceed the MRC, the Contractor shall request authority in writing to proceed with the repair from the RA.

8.4.4 Where it is impossible to determine the cost to repair, the Contractor may be granted authority by the RA to strip the equipment so as to assess its repair and/or overhaul potential and to estimate the costs. Unless otherwise specified, and regardless of the value of the equipment, the cost of the work involved in estimating the repair cost is chargeable to the item whether or not it is subsequently repaired.

8.5 Discrepancies In Shipments

8.5.1 If upon initial inspection, the Contractor identifies equipment as having the same form, fit and function as other equipment, but as being misidentified, the Contractor shall forward a detailed message to the Consignor and to the RA with a recommendation for corrective action. A discrepancy in shipment can consist of any of the following:

a. In-condition;

b. Surplus; or

c. Shortage.

8.5.2 The Contractor shall action discrepancies in shipments in accordance with the procedures of PART 3 of A-LM-184-001/JS-001, except that the information is passed to the RA for items processed outside of the CFSS.

8.6 Completion Of Work

8.6.1 On completion of Repair and/or Overhaul, the Contractor shall prepare and transmit a stock holding code (SC) change notification in accordance with PART 2 of A-LM-184-001/JS-001, except that the information is passed to the RA for items processed outside of the CFSS..

8.6.2 The following "Contractor Certification" shall be stamped on the CFSS Supply Document and signed prior to the Contractor transmitting the SC Change Notification:

Contractor Certification

I certify that the item(s) listed above have been inspected, tested and conform to all specifications and requirements detailed in the contract or purchase order.

Signature _____ Date _____

(Contractor QC)

8.7 Work Control

8.7.1 The Contractor shall ensure that the repair of all DND equipment is controlled by a serial numbered work order in accordance with PART 2 of A-LM-184-001/JS-001. Upon completion of work, the work order shall include as a minimum the following:

a. a contract serial number against which all costs incurred are chargeable;
b. the NATO Stock Number (NSN) and/or Part Number (PN), description, quantity and serial number, if any, of item repaired;
c. a cross reference to all Supply Documents. This includes receipt, issues and returns, including scrap activity, finalization of repair, inspection, and final acceptance;
d. reference to the applicable technical data;
e. details of the work performed;
f. a list of all the parts, by part number and description, found unserviceable and requiring repair and/or overhaul, ensuring that the repair scheme is referenced
g. a list of parts required, identifying the stores from which issued (eg, CIS, GFOS, AAS or CFM);
h. repair cost estimate; and
i. the identity of the person opening the work order.

8.7.2 The Contractor shall provide to the RA, and if applicable to the National Defence Quality Assurance Region (NDQAR) amended as necessary, a list of Contractor personnel authorized to open work orders.

8.7.3 All repaired items shall be returned to DND in the same part number configuration as it was delivered to the Contractor, unless otherwise authorized in writing by the TA and the RA, and if applicable the Quality Assurance Authority.

8.7.4 All equipment assemblies, components and kits, after repair, shall have a CF 942 tag/label completed and attached as detailed in Government Publication C-02-005-009/AM-000. The CF 942 tag/label shall also be affixed to the external packaging. Form CF 942 is available both as a tag (CF 942) or label (CF 942A).

8.8 Annual Repair Forecast – Selection Notice and Priority Summary (SNAPS)

8.8.1 The contractor shall notify the RA when the receipt for a selected repairable line item exceeds the current (fiscal) year forecast (CYF) in the SNAPS report for items processed through the CFSS, or the Contract repairable list generated by the RA for items processed outside of the CFSS. The contractor shall not induct the line item until written approval is received from the RA or the SNAPS forecast is amended, as applicable.

8.9 Cost Control

8.9.1 The Contractor shall monitor the cost of each repair to ensure that total repair costs remain within approved limits. Appropriate management control procedures shall be in place and records maintained. These control procedures and records shall be available for review and/or audit on request.

8.10 Costing Records

8.10.1 The Contractor shall prepare forms and maintain records which will provide, to the RA or the NDQAR, as applicable:

a. a cost listing, by serial number if applicable, of each item or job lot going through the repair line;
b. a detail of the extent of work carried out, in-process inspections completed and materiel embodied at any stage of the repair process;
c. the average cost of repair and/or overhaul, by NSN; and
d. the total repair cost for an item (NSN), by work order.

8.11 Maintenance Support

8.11.1 Minor Repairs

8.11.1.1 If DND supplied parts are urgently required to effect delivery of Free Flow (components) and are not immediately available from DND, then minor repair may be carried out to the unserviceable part by the Contractor, as approved by the RA who will advise NDQAR accordingly.

8.11.2 Mobile Repair Parties (MRPs)

8.11.2.1 The Contractor shall provide an MRP, when tasked and authorized by the RA.

8.11.2.2 There are two types of MRP:

a. A scheduled MRP; for a scheduled MRP, the RA follow the standard DND 626 Task Authorization process. (This process shall be used to authorize and coordinate any on-site support tasks at CAF training and deployment sites.)
b. An unscheduled, Immediate Operational Requirement (IOR) MRP. The unscheduled IOR MRP happens under exceptional and extraordinary circumstances (for example: pre-deployment preparations for an unexpected extended operational mission) and requires an immediate response from DND.

8.11.2.3 The process to action an unscheduled IOR MRP is as follows:

8.11.2.3.1 The TA/PM is responsible to:

a. contact the RA;
b. describe the work to be done;

c. request that the unscheduled IOR MRP process be used.

8.11.2.3.2 The RA is responsible to:

a. Ensure that the instructions for unscheduled IOR MRPs are contained in the contract;
b. Refer to the “Procedures and Guidelines for Mobile Repair Parties Manned by Contractor Personnel” document (NDID C-02-005-011/AM-000);
c. Review the requirement to confirm that it is effectively an unscheduled IOR MRP;
d. Approve the unscheduled IOR MRP;
e. If the work is within the RA funding authorization level, confirm by e-mail to the TA/PM and the company that the requirement is approved. In this case the RA’s e-mail is the written agreement that allows the work to proceed; and
f. If the work is NOT within the RA funding authorization level, work with the CA to ensure the work is approved in as expeditious a manner as is practicable. In this case an e-mail from the CA will be deemed to be the written agreement that allows the work to proceed, pending receipt of the appropriate DND 626 or Contract amendment.

8.11.2.4 On completion of work the Contractor shall provide the RA with a cost breakdown indicating labour hours by trade, travel expenses, living expenses, etc. Costs shall be all inclusive and shall be an indication of the actual amount being claimed. Travel costs shall not exceed approved TB Guidelines unless pre-approved in writing by the RA prior to undertaking the travel. TB Guidelines are available at http://www.tbs-sct.gc.ca/pubs_pol/hrpubs/TBM_113/td-dv-eng.asp.

8.11.2.5 If requested, the Contractor shall submit two (2) copies of a monthly progress report covering MRP activities to the RA. The level of detail and format will be stipulated in the individual DND 626 tasking should such a report be deemed to be necessary. (Note: such a report is rarely called up).

8.12 Equipment Turn Around Time (TAT)

8.12.1 Unless specifically identified within the contract, equipment TAT to a serviceable state shall be achieved as required to meet the System 90% availability rating. TAT is defined as that period of time from "date of receipt to date item is reported serviceable". Repair priority is governed by the SNAPS or by the repairables list provided to the Contractor by the RA, as applicable. The principle of "first-in / first-out" (FIFO), shall be observed whenever possible.

8.13 Priority Repair Request (PRR)

8.13.1 The Contractor shall be prepared to satisfy PRRs in an expeditious manner. If the Required Delivery Date (RDD) cannot be met, the Contractor shall advise the originator and the consignee for a more realistic Estimated Delivery Date (EDD). This EDD shall be amended as required until the PRR is satisfied.

8.14 Special Investigations & Technical Studies (SITs)

8.14.1 When authorized by the RA, the Contractor shall undertake special investigation and technical studies and shall provide relevant data to these investigations as and when required. The scope of work normally covered under special investigation and technical studies is to cater for equipment not meeting specification standards or due to repetitive failures. This excludes studies and/or investigations which have or will have fleet fitment application.

8.15 Technical Investigations & Engineering Support (TIES)

8.15.1 When authorized by the RA, the Contractor shall undertake TIES tasks. This activity includes the provision of System and maintenance support and management services. It includes the requirement analysis and planning to ensure current reliability availability of specifications can be met, the scheduling of maintenance, the identification of spares and support, as well as the development of policies and maintenance procedures. It also includes the contract management activities as well as the validation/acceptance of deliverables when maintenance activity in contracted.

8.16 Warranty Consideration

8.16.1 Materiel which has been returned for warranty consideration shall be actioned in accordance with PART 10 of A-LM-184-001/JS-001.

8.17 Stop Repair Action

8.17.1 The Contractor shall comply immediately with all stop repair instructions. Detailed procedures are contained in PART 2 of A-LM-184-001/JS-001.

8.18 Reports

8.18.1 In addition to any report IAW CDRL PM003, DID PM-003, as required under any work under the other various plans, and as detailed in any specific support service task SOW, the Contractor shall submit an Annual Contractor Held Inventory Report.

8.18.2 The report, submitted to the RA, shall detail the value of all AAS and GFOS inventory held on March 31. Appendix 1 provides details on how to report this inventory, and Appendix 2 is a sample copy of the report proforma (Standard Form).

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CONTRACTOR-HELD INVENTORY REPORTING REQUIREMENTS

1. The instructions to complete the Contractor-Held Inventory Reporting templates are as follows:

1.1 Part A: "DND Owned Inventory Holdings held by Contractors as at 31 Mar 20XX".

a. A separate Inventory Holdings report is required for Consumable Inventory and Repairable Inventory. If your inventory cannot be reported or separated on the basis of consumable versus repairable, please state what the majority of the inventory would be classified as repairable or consumable based on the definitions below.

b. Loaned equipment from DND shall be authorized through a DND-authorized loan agreement. Reporting shall be as per the conditions of the loan agreement.

c. Whole Capital assets are not to be reported to DND. Whole Capital Assets are equipment that has been purchased by DND for the contractor that are not inventory, such as vehicles, test equipment, etc.

d. The reports provided by the company inventory system are acceptable for reporting purposes to DND, as long as they contain the essential information requested in the template provided.

e. Provide any alternate part number or manufacture part number in addition to the part number listed above. Provide the class also, if available, as well as any additional field information you have that may help to classify the data.

f. Provide the inventory report in electronic format, MS Excel being the preferred software, advise RA if not available.

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2 Definitions:

2.1 Government Furnished Overhaul Spares (GFOS) – Non-catalogued inventory spares which are not purchased by the contractor but arise from:

a. AA spares transferred from another contractor;

b. DND procurement with the US government;

c. spares salvaged from DND equipment; or

d. de-catalogued CIS spares which are for 3rd line use only. GFOS spares are not recorded in the Canadian Forces Supply System (CFSS).

2.2 Accountable Advance Spares (AAS) – Non-catalogued inventory spares which the contractor has been authorized by DND to purchase using DND funds, on an exceptional basis. The CFSS does not track AAS.

2.3 Bonded Stock – Inventory spares which the Out of Country contractor has been authorized by DND to purchase using DND funds, on an exceptional basis. The CFSS does not track bonded stock.

2.4 Repairable Inventory – An item of supply designated as capable of being repaired.

2.5 Consumable Inventory – An item of supply that is not repairable.

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3 Part B

3.1 ”Repairable Template Input/Output Repairable Inventory Report for the Year Ending 31 March 20XX” and “Consumable Template Input/Output Consumable Inventory Report for the Year Ending 31 March 20XX”:

Notes:

1. The closing inventory as at 31 Mar 20XX shall be equal to the itemized listings provided in the consumable and repairable reports of ‘DND Owned Inventory Holdings as at 31 Mar 20XX.’
2. A separate Input/Output Inventory Report is required for Consumable Inventory and Repairable Inventory.
3. It is preferable to provide the data in a part number level format detailing the equipment platform supported, but the summary level report as outlined in the template is acceptable.
4. Report in one currency only and specify the currency if it is not Canadian.

---

4 Part C

4.1 "Additional Information Requested for Year-End Reporting"

4.1.1 The following information is requested:

a. Description of the activities performed under the Repair and Overhaul (R&O) contract(s)supported by the inventory holdings if not supplied on the Part A spreadsheet (such as R&O on Hercules engines);
b. How often stocktaking is performed on the contractor holdings of DND owned inventory;
c. Date of last stocktaking;
d. The accounting method used by the contractor to value the inventory reported first-in-first-out (FIFO), last-in-first-out (LIFO), historical cost or moving weighted average;
e. Is this a sub-contractor to another company? If so, who?
f. DND and contractor point of contact for the inventory report as at 31 Mar 20XX

Appendix 2 to Annex D (GSSC REPORT TEMPLATE)
To Solicitation No: W8486-133924

PART A DND Owned Inventory Held By ContractorsCompany: _____ Contract Number: _____ As At 31 March 20__

Item / Part Number (Note 1)	Equipment Platform The Item Supports (Note 2)	NATO Stock Number (NSN) (If known)	Stock Code (SC) (If known)	Item Description	Quantity	Unit Of Measure	Unit Cost	Extended Value	Currency (Note 3)	Program Under Which The Inventory Is Held (Note 4)	Repair Flag ' 'Y" / "N" (Note 5)

Notes
General Note: Inventory reported here should include all items that a contractor holds that belong to DND and that are not already accounted for in the CFSS or CAMMS.
Note 1: If you have an alternate part number or manufacture part number in addition to the part number listed, please provide that detail if possible. Also provide the Group Class if available. We would like any additional field information you have that may help to classify the data.
Note 2: Please specify if possible the equipment platform the inventory item supports. For example, if your inventory pertains to three aircraft types, put the specific aircraft type beside each inventory item part number.
Note 3: Report in one currency only and specify the currency if it is not Canadian.
Note 4: If known, enter the program under which the inventory is held (e.g., GFOS, AAS, Bonded Stock, etc.).
Note 5: Please identify repair flag Y for a repairable item and N for a consumable item.

(GSSC REPORT TEMPLATE)

PART B

REPAIRABLE TEMPLATE

INPUT / OUTPUT REPAIRABLE INVENTORY REPORT
FOR THE YEAR ENDING 31 MARCH 20XX

Opening Inventory as at 1 April 20XX:	
Plus: Cost of Goods Purchased or Acquired:	
Minus: Consumption / Removals:	
Closing Inventory as at 31 March 20XX:	$ -

NOTES

Note 1: The closing inventory as at 31 March 20XX shall be equal to the itemized listing of repairable items provided through Part A, DND Owned Inventory Holdings Held by Contractors as at 31 March 20XX.

Note 2: A separate Input / Output Inventory Report is required for Consumable Inventory and Repairable Inventory.

Note 3: Report in one currency only and specify the currency if it is not Canadian.

PART B

CONSUMABLE TEMPLATE
INPUT / OUTPUT CONSUMABLE INVENTORY REPORT
FOR THE YEAR ENDING 31 MARCH 20XX

Opening Inventory as at 1 April 20XX:	
Plus: Cost of Goods Purchased or Acquired:	
Minus: Consumption / Removals:	
Closing Inventory as at 31 March 20XX:	$ -

NOTES

Note 1: The closing inventory as at 31 March 20XX shall be equal to the itemized listing of consumable items provided through Part A, DND Owned Inventory Holdings Held by Contractors as at 31 March 20XX.

Note 2: A separate Input / Output Inventory Report is required for Consumable Inventory and Repairable Inventory.

Note 3: Report in one currency only and specify the currency if it is not Canadian.

PART C

ADDITIONAL INFORMATION REQUESTED FOR YEAR END REPORTING

Description of the activities performed under the Repair & Overhaul (R&O) contract(s) supported by the inventory holdings if not supplied on the Part A spreadsheet (i.e. R&O on Hercules engines).	
How often is a stocktaking performed on the contractor holdings of DND owned inventory?	
What is the date of last stocktaking?	
What accounting method is used by the contractor to value the inventory reported (FIFO, LIFO, historical cost or moving weighted average)?	
Is this a sub-contractor to another company? If so, who?	
DND and Contractor points of contact for the inventory report as at 31 March 20XX.	

Note: Inventory reports may be subject to audit by the Office of the Auditor General (OAG).

ANNEX E

CANADIAN ARMY
SMALL UNMANNED AIRCRAFT SYSTEM (SUAS)

DATA DELIVERABLES

Appendix 1 Contract Data Requirements List (CDRL)

Appendix 2 Data Item Description (DID)

1. General

1.1 Each CDRL in appendix 1 identifies a data deliverable. Each CDRL has an associated DID in Appendix 2 which provided details on the format and content of the data deliverable.

1.2 The deliverables apply to both the Acquisition Contract and the In-Service Support Contract. The extent to which they apply to each contract is defined in the applicable Contract SOW clauses.

APPENDIX 1

TO

ANNEX E

CONTRACT DATA REQUIREMENTS LIST (CDRL)

CANADIAN ARMY

SMALL UNMANNED AIRCRAFT SYSTEM (SUAS) CAPABILITY

This appendix contains each CDRL that is called up in the Contract and/or Statement of Work (SOW). Each CDRL specifies the Deliverable Data required, and the associated Data Item Description (DID) defines the data content, preparation instructions, format and intended use of the data.

CDRL Item Number	Data Item Description Number	Title	Acquisition SOW References	Support SOW References
PM001	PM-001	Project Management Plan	4.1.1	1.3.2, 4.1.2
PM002	PM-002	Meeting Minutes	4.2.6	4.1.4.6
PM003	PM-003	Progress Reports	4.3.1	4.1.5.1, 8.18.1
PM004	PM-004	Contractor Risk Management Plan	4.4.1	1.3.2, 4.2.1
AW001	AW-001	SUAS Product Description Package	5.4.2.1	5.1.1
AW002	AW-002	System Safety Assessment (SSA) & Functional Hazard Assessment (FHA)	5.4.3.1	5.1.1
AW003	AW-003	SUAS Flight Manuals	5.4.4.1, 7.17.2.a	5.1.1
AW004	AW-004	SUAS Special Type Certificate Data Sheet (SS/TCDS)	5.4.5.1	5.1.1
AW005	AW-005	SUAS Established Safety Record	5.4.6.1	5.1.1
AW006	AW-006	SUAS Identification Markings Drawings	5.5.3.1	5.1.1
AW007	AW-007	SUAS Certificate of Conformance (CoC)	5.5.4.1	5.1.1
AW008	AW-008	Airworthiness Management Plan (AMP)	5.6.2.1	5.2.2.1
SE001	SE-001	Interface Control Document (ICD)	6.4.2, 6.4.3, 7.17.2.c	
SE002	SE-002	Request for Deviations / Waivers	6.5.1.1, 6.5.1.2	6.4.4.1.1, 6.4.4.1.2
SE003	SE-003	Configuration Management Plan:	6.6.2, 6.6.3,	6.4.1
SE004	SE-004	Application for Frequency Supportability	6.8.1	4.3.1
SE005	SE-005	Acceptance Test Plan and Report	6.9.1	1.3.2, 6.6.2
ILS001	ILS-001	Integrated Logistics Support (ILS) Plan	7.2.1	1.3.2, 4.4.1, 7.1.1.1
ILS002	ILS-002	Provisioning Documentation	7.3.1	

CDRL Item Number	Data Item Description Number	Title	Acquisition SOW References	Support SOW References
ILS003	ILS-003	Drawing Package and Associated Lists	7.6.1.2, 7.6.2, 7.6.4, 7.6.5, 7.6.7	7.1.2.1.2, 7.1.2.4
ILS004	ILS-004	Maintenance Plan	7.8.1	1.3.2, 4.5.1, 7.1.1.3
ILS005	ILS-005	Recommended Spare Parts List (RSPL)	7.9.1	
ILS006	ILS-006	Publication Management Plan	7.15.1	1.3.2, 4.6.1
ILS007	ILS-007	Technical Publications	7.17.2.b, 7.17.2.e	
ILS008	ILS-008	Special Tools and Test Equipment (STTE) List	7.18.2	
ILS009	ILS-009	Summary of Contractor Qualifications & Authorizations	7.19.9.1	4.1.6.1
T001	Trg-001	Training Plan (TP)	7.19.2.1	1.3.2, 4.7.1
T002	Trg-002	Recommended Training Materials List (RTML)	7.19.2.1, 7.19.4.2	
T003	Trg-003	Training Documentation	7.19.5.1	

INTERPRETATION: The Contract Data Requirements List (CDRL) contains the deliverable data requirements for the SUAS SOW.

PRECEDENCE: The requirements in Blocks 7 through 16 of the CDRL line items take precedence over any such requirements that may be specified in the associated Data Item Description (DID).

INSPECTION AND ACCEPTANCE OF DATA: Receipt of data does not constitute acceptance. The contract Terms and Conditions define the data acceptance criteria.

SUBMISSION SCHEDULE: Unless otherwise specified, all numbers of days expressed herein are calendar days. Date of submission means date of receipt of covering letter at Public Works and Government Services Canada (PWGSC).

System Identification

A. Annex Description: SUAS Acquisition, SUAS In Service Support

B. Contract/RFP Number:	W8476-133924_____
C. SOW Identifier:	SUAS
D. Data Categories	Project Management (PM) System Engineering (SE) Integrated Logistics Support (ILS) Training (Trg)
E. System/Item	_____
F. Contractor:	_____

Block 1 – Item Number: An alphanumeric sequence of a letter and three digits to uniquely identify a functional area of responsibility and the individual data item, expressed as follows:

PM00	Project Management.
AW	Airworthiness
SE00	System Engineering.
ILS00	Integrated Logistics Support (ILS).
T00	Training Requirements

Block 2- Title Or Description Of Data: The title of the data item being referred to in this CDRL.

Block 3 - Subtitle: The subtitle for the DID is entered if the title requires further identification.

Block 4 –Data Item Number: Indicates the Data Item Description (DID) number to which this CDRL refers. (e.g. PM-001).

Block 5 – Contract Reference: The specific article from the Contract, SOW, Request for Proposal, Specifications, or other applicable document, which identifies the effort associated with the data item.

Block 6 – Requiring Office: Identifies the authority responsible for defining the data requirement, and ensuring the adequacy of the delivered data item.

(e.g., Project Management Office (PMO) Land Force (LF) Intelligence, Surveillance, Target Acquisition and Reconnaissance (ISTAR)).

Block 7 – Inspection And Acceptance Method: If required, indicates the requirement for Inspection and Acceptance of the data item. The following codes are used:

CODE	INSPECTION	ACCEPTANCE
SS	Source	Source
DD	Destination	Destination
SD	Source	Destination
DS	Destination	Source

Block 8 - Approval Code: An “A” in this field identifies data that require approval. Approval of a preliminary draft is required before submission of the final document.

Block 9 - Input: “X” indicates that the data represents the integrated results of inputs from associated contractors.

Block 10 - Frequency: This block indicates the frequency of the delivery of the data. The following frequency codes are used:

ANNLY	Annually;	MNTHY	Monthly;
AS GEN	As generated;	ONE/R	One time with revisions;
AS REQ	As required	OTIME	One time;
BI-MO	Each 2 months;	QRTLY	Quarterly;
BI-WK	Each 2 weeks;	R/ASR	Revisions as required;
DAILY	Daily;	SEMIA	Semi Annually; and
DFDEL	Deferred delivery;	WKLY	Weekly
DFREQ	Deferred requisitioning;		

Block 11 - As Of Date: The date that the data item is due, or the constraint if constrained by an event or milestone, if only one submission is required. The following abbreviations are used for constraints:

PROP	Submitted with Contractors' proposals;	DFDEL	Deferred delivery;
		DFREQ	Deferred requisitioning;
AS GEN	As generated;	EOC	End of contract;
AS REQ	As required;	EOM	End of month; and
DACA	Days after contract award;	EOQ	End of quarter.
MACA	Months after contract award;		

If there is insufficient space in block 11, the phrase "SEE BLOCK 16" is entered in block 11 and block 16 will have the constraint/milestone entered.

Block 12 - Date Of 1st Submission: The date that the first submission of the data item is due, or the constraint if constrained by an event or milestone. The abbreviations listed above for Block 11 are used for constraints.

If there is insufficient space in block 12, the phrase "SEE BLOCK 16" will be entered in block 12 and block 16 will have the constraint/milestone entered.

Block 13 - Date Of Subsequent Submission / Sub Event ID: The dates that the subsequent submissions of the data item are due, or the constraint if constrained by an event or milestone, if multiple submissions are required. The abbreviations listed above for Block 11 are used for constraints.

If there is insufficient space in block 13 the phrase "SEE BLOCK 16" is entered in block 13 and block 16 will have the constraint/milestone entered.

Block 14 - Distribution And Addresses: The addresses and the respective number of paper hard copies and reproducible electronic soft copies to be provided to each addressee for the first

submission and subsequent submissions of the data item is entered in this block. The following addressee abbreviations are used.

14. Distribution And Addressees	1P	1E	AP-	AE
Address	# of Draft Paper Copies	# of Draft Electronic Copies	# of Amended or final Paper Copies	# of Amended or final Electronic Copies

		Mail address:
CA	Contract Authority	Public Works and Government Services Canada (PWGSC) Place du Portage, Phase III 6C1, workstation #57 11 Laurier Street Gatineau, Quebec K1A OS5 Mail address:
PM	Project Manager	Directorate Land Command System Program Management 4
DPM	Deputy Project manager	National Defence Headquarters Major-General Georges R. Pearkes Building 101 Colonel By Dr
TA	Technical Authority	Ottawa, Ontario, Canada K1A 0K2
WSM	Weapon System Manager	Courier address: Directorate Land Command System Program Management 4 National Defence Headquarters Courier Handling Facility 45 Sacré Coeur Blvd Gatineau QC, K1A 0K2 Mail address:
DTAES	Directorate Technical Airworthiness & Engineering Support 3-2 - Direction	Director Technical Airworthiness & Engineering Support 3-2 Cumberland Bldg National Defence Headquarters 101 Colonel By Dr Ottawa, ON K1A 0K2
TAA	Technical Airworthiness Authority	

		Mail address:
PA	Procurement Authority	Directorate Land Procurement National Defence Headquarters
	(Requisition Authority)	Major-General Georges R. Pearkes Building 101 Colonel By Dr Ottawa, Ontario, Canada K1A 0K2 Attention: DLP 5-4-1

Block 15 - Total: Indicate the total number of copies (hard copies and soft copies separately) for the first submission and subsequent submissions of the data item.

Block 16 - Remarks: Additional or clarifying information for blocks 1 through 15.

Block 17 - Contract File Number/Document Number: Optional: The Contractor's internal filing or document number, if applicable;

Block 18 - Estimated Number Of Pages: The estimated number of pages, drawings, etc., for a single preparation is entered in this block;

Block 19 - Estimated Price: The total estimated price attributable to the production or development of the data item is entered in this block.

NOTE: BLOCK 19 IS ONLY COMPLETED AFTER CONTRACT AWARD AS THAT INFORMATION SHALL NOT BE PROVIDED TO THE TECHNICAL EVALUATION TEAM DURING BID EVALUATION.

A. Annex Description		B. Contract/RFP Number:	
Annex B, SUAS Acquisition SOW Annex C, SUAS In Service Support SOW		W8476-133924_____	
C. SOW Identifier(s)	SUAS Acquisition SUAS In Service Support	D. Data Category	Project Management
E. System/Item			
F. Contractor			

1. Item No:	PM001	2. Title/Description:	Project Management Plan
		3. Subtitle:	
4. Data Item Number:	PM-001	5. Contract Reference:	SUAS-A Para : 4.1.1 SUAS-S Para: 1.3.2, 4.1.2

6. Requiring Office:	7. Inspection:	8. Approval Code:	9. Input:
PMO LF ISTAR, Technical Authority (TA)	DD	A	

10. Frequency	11. As Of Date	12. 1st Submission	13. Date of Subsequent Sub Event ID
See block 16	See block 16	PROP	See block 16

14. Distribution and Addressees	Draft		Final		16. Remarks
	Paper	Electronic	Paper	Electronic	PROP: Milestone list and outline PMP submitted for tasks included with RFP as part of bid proposal. 45 DACA: Submit completed PMP. AS REQ: Subsequent Updates if/as required.
CA	2	2	1	1	
TA	0	0	1	1	
Other	0	0		1	
15. Total	2	2	2	3	

17. Contract File / Document #	18. Est # of Pages:	19. Estimated Price
		$

A. Annex Description		B. Contract/RFP Number:	
Annex B, SUAS Acquisition SOW Annex C, SUAS In Service Support SOW		W8476-133924_____	
C. SOW Identifier(s)	SUAS Acquisition SUAS In Service Support	D. Data Category	Project Management
E. System/Item			
F. Contractor			

1. Item No:	PM002	2. Title/Description:	Meeting Minutes
		3. Subtitle:	
4. Data Item Number:	PM-002	5. Contract Reference:	SUAS-A Para: 4.2.6 SUAS-S Para: 4.1.4.6

6. Requiring Office:	7. Inspection:	8. Approval Code:	9. Input:
TA			

10. Frequency	11. As Of Date	12. 1st Submission	13. Date of Subsequent Sub Event ID
AS GEN	AS GEN	See block 16	AS GEN

14. Distribution and Addressees	Draft		Final		16. Remarks
	Paper	Electronic	Paper	Electronic	AS GEN: To be submitted to DND PM and CA for approval no later than five (5) working days following each meeting/tele-conference. DND will have the final approval authority for all agendas, minutes of meetings and reviews within 15 business days.
CA		1	1	1	
TA		1	1	1	
Other		1		1	
15. Total		3	2	3	

17. Contract File / Document #	18. Est # of Pages:	19. Estimated Price
		$

A. Annex Description		B. Contract/RFP Number:	
Annex B, SUAS Acquisition SOW Annex C, SUAS In Service Support SOW		W8476-133924_____	
C. SOW Identifier(s)	SUAS Acquisition SUAS In Service Support	D. Data Category	Project Management
E. System/Item			
F. Contractor			

1. Item No:	PM003	2. Title/Description:	Progress Reports
		3. Subtitle:	
4. Data Item Number:	PM-003	5. Contract Reference:	SUAS-A Para: 4.3.1 SUAS-S Para: 4.1.5.1, 8.18.1

6. Requiring Office:	7. Inspection:	8. Approval Code:	9. Input:
TA	DD	A	

10. Frequency	11. As Of Date	12. 1st Submission	13. Date of Subsequent Sub Event ID
See block 16	See block 16	See block 16	See block 16

14. Distribution and Addressees	Draft		Final		16. Remarks
	Paper	Electronic	Paper	Electronic	MNTHY: For all open Capability delivery, TIES, AWRs, Training, and Repair and Overhaul tasks, Progress Reports are due by the fifth (5th) working day of the following month. DND will have the final approval authority for all reports within 15 business days.
CA			1	1	
TA			1	1	
Other				1	
15. Total			2	3	

17. Contract File / Document #	18. Est # of Pages:	19. Estimated Price
		$

A. Annex Description				B. Contract/RFP Number:	
Annex B, SUAS Acquisition SOW Annex C, SUAS In Service Support SOW				W8476-133924_____	
C. SOW Identifier(s)	SUAS Acquisition SUAS In Service Support			D. Data Category	Project Management
E. System/Item					
F. Contractor					

1. Item No:	PM004	2. Title/Description:	Contractor Risk Management Plan
		3. Subtitle:	
4. Data Item Number:	PM-004	5. Contract Reference:	SUAS-A Para: 4.4.1 SUAS-S Para: .1.3.2, 4.2.1

6. Requiring Office:	7. Inspection:	8. Approval Code:	9. Input:
TA	DD		

10. Frequency	11. As Of Date	12. 1st Submission	13. Date of Subsequent Sub Event ID
ONE/R	See block 16	PROP	See block 16

14. Distribution and Addressees	Draft		Final		16. Remarks
	Paper	Electronic	Paper	Electronic	PROP: Draft Contractor RMP based on RMP for existing customers. 60 DACA: Final submission for approval.
CA	2	2	1	1	
TA			1	1	
Other				1	
15. Total	2	2	2	3	

17. Contract File / Document #	18. Est # of Pages:	19. Estimated Price
		$

A. Annex Description				B. Contract/RFP Number:	
Annex B, SUAS Acquisition SOW Annex C, SUAS In Service Support SOW				W8476-133924_____	
C. SOW Identifier(s)	SUAS Acquisition SUAS In Service Support			D. Data Category	Airworthiness
E. System/Item					
F. Contractor					

1. Item No:	AW001	2. Title/Description:	SUAS Product Description Package
		3. Subtitle:	
4. Data Item Number:	AW-001	5. Contract Reference:	SUAS-A Para: 5.4.2.1 SUAS-S Para: 5.1.1

6. Requiring Office:	7. Inspection:	8. Approval Code:	9. Input:
TA and Technical Airworthiness Authority (TAA)	DD		

10. Frequency	11. As Of Date	12. 1st Submission	13. Date of Subsequent Sub Event ID
AS REQ	See block 16	PROP	See block 16

14. Distribution and Addressees	Draft		Final		16. Remarks
	Paper	Electronic	Paper	Electronic	PROP: A comprehensive Product Description Package is required for Airworthiness assessment. AS REQ: Revised as required to incorporate approved changes to the system as they occur.
CA	2	2	1	1	
TA			1	1	
TAA			1	1	
Other				0	
15. Total	2	2	3	3	

17. Contract File / Document #	18. Est # of Pages:	19. Estimated Price
		$

A. Annex Description		B. Contract/RFP Number:	
Annex B, SUAS Acquisition SOW Annex C, SUAS In Service Support SOW		W8476-133924_____	
C. SOW Identifier(s)	SUAS Acquisition SUAS In Service Support	D. Data Category	Airworthiness
E. System/Item			
F. Contractor			

1. Item No:	AW002	2. Title/Description:	System Safety Assessment and Functional Hazard Assessment
		3. Subtitle:	
4. Data Item Number:	AW-002	5. Contract Reference:	SUAS-A Para: 5.4.3.1 SUAS-S Para: 5.1.1

6. Requiring Office:	7. Inspection:	8. Approval Code:	9. Input:
TA and TAA	DD	A	

10. Frequency	11. As Of Date	12. 1st Submission	13. Date of Subsequent Sub Event ID
AS REQ	See block 16	PROP	AS REQ

14. Distribution and Addressees	Draft		Final		16. Remarks
	Paper	Electronic	Paper	Electronic	PROP: Draft SUAS Safety Case submission with risk analysis (if it already exists). Flight Safety Program Manual (if it already exists) AS REQ: If previously submitted, as required, an updated SUAS Safety Case shall be submitted to DND to assist with airworthiness approval program updates.
CA	2	2			
TA				1	
TAA				1	
Other					
15. Total	2	2		2	

17. Contract File / Document #	18. Est # of Pages:	5
		$

A. Annex Description				B. Contract/RFP Number:	
Annex B, SUAS Acquisition SOW Annex C, SUAS In Service Support SOW				W8476-133924_____	
C. SOW Identifier(s)	SUAS Acquisition SUAS In Service Support			D. Data Category	Airworthiness
E. System/Item					
F. Contractor					
1. Item No:	AW003	2. Title/Description:	SUAS Flight Manual		
		3. Subtitle:			
4. Data Item Number:	AW-003	5. Contract Reference:	SUAS-A Para: 5.4.4.1, 7.17.2.a SUAS-S Para: 5.1.1		

6. Requiring Office:	7. Inspection:	8. Approval Code:	9. Input:
TA and TAA	DD	A	

10. Frequency	11. As Of Date	12. 1st Submission	13. Date of Subsequent Sub Event ID
AS REQ	60 DACA	PROP	AS REQ

14. Distribution and Addressees	Draft		Final		16. Remarks
	Paper	Electronic	Paper	Electronic	PROP: Submit a representative/draft SUAS Flight or Operator Manual for review. The documentation shall include system operating instructions, operating limitations, emergency procedures and checklists. AS REQ: Amend if/as necessary
CA	2	2		1	
TA			1	1	
TAA			1	1	
Other					
15. Total	2	2	2	3	

17. Contract File / Document #	18. Est # of Pages:	19. Estimated Price
		$

A. Annex Description		B. Contract/RFP Number:	
Annex B, SUAS Acquisition SOW Annex C, SUAS In Service Support SOW		W8476-133924_____	
C. SOW Identifier(s)	SUAS Acquisition SUAS In Service Support	D. Data Category	Airworthiness
E. System/Item			
F. Contractor			

1. Item No:	AW004	2. Title/Description:	SUAS Special Type Certificate Data Sheet (SS/TCDS)
		3. Subtitle:	
4. Data Item Number:	AW-004	5. Contract Reference:	SUAS-A Para: 5.4.5.1 SUAS-S Para: 5.1.1

6. Requiring Office:	7. Inspection:	8. Approval Code:	9. Input:
TA and TAA	DD	A	

10. Frequency	11. As Of Date	12. 1st Submission	13. Date of Subsequent Sub Event ID
See block 16	See block 16	PROP	See block 16

14. Distribution and Addressees	Draft		Final		16. Remarks
	Paper	Electronic	Paper	Electronic	PROP: Airworthiness Clearance supporting documentation provided for airworthiness assessment. AS REQ: If/as required due to system enhancements or changes to the operational circumstances during the term of the Contract.
CA	2	2		1	
TA			1	1	
TAA			1	1	
Other					
15. Total	2	2	2	3	

17. Contract File / Document #	18. Est # of Pages:	19. Estimated Price
		$

A. Annex Description		B. Contract/RFP Number:	
Annex B, SUAS Acquisition SOW Annex C, SUAS In Service Support SOW		W8476-133924_____	
C. SOW Identifier(s)	SUAS Acquisition SUAS In Service Support	D. Data Category	Airworthiness
E. System/Item			
F. Contractor			

1. Item No:	AW005	2. Title/Description:	SUAS Established Safety Record
		3. Subtitle:	
4. Data Item Number:	AW-005	5. Contract Reference:	SUAS-A Para: 5.4.6.1 SUAS-S Para: 5.1.1

6. Requiring Office:	7. Inspection:	8. Approval Code:	9. Input:
TA and TAA	DD	A	

10. Frequency	11. As Of Date	12. 1st Submission	13. Date of Subsequent Sub Event ID
See block 16	See block 16	PROP	See block 16

14. Distribution and Addressees	Draft		Final		16. Remarks
	Paper	Electronic	Paper	Electronic	PROP: Airworthiness Clearance supporting documentation provided for airworthiness assessment. AS REQ: If/as required due to system enhancements or changes to the operational circumstances during the term of the Contract.
CA	2	2		1	
TA			1	1	
TAA			1	1	
Other					
15. Total	2	2	2	3	

17. Contract File / Document #	18. Est # of Pages:	19. Estimated Price
		$

A. Annex Description		B. Contract/RFP Number:	
Annex B, SUAS Acquisition SOW Annex C, SUAS In Service Support SOW		W8476-133924_____	
C. SOW Identifier(s)	SUAS Acquisition SUAS In Service Support	D. Data Category	Airworthiness
E. System/Item			
F. Contractor			

1. Item No:	AW006	2. Title/Description:	SUAS Identification Markings Drawings
		3. Subtitle:	
4. Data Item Number:	AW-006	5. Contract Reference:	SUAS-A Para: 5.5.3.1 SUAS-S Para: 5.1.1

6. Requiring Office:	7. Inspection:	8. Approval Code:	9. Input:
TA and TAA	DD	A	

10. Frequency	11. As Of Date	12. 1st Submission	13. Date of Subsequent Sub Event ID
See block 16	See block 16	PROP	See block 16

14. Distribution and Addressees	Draft		Final		16. Remarks
	Paper	Electronic	Paper	Electronic	PROP: Draft images showing proposed locations for required markings. 45 DACA: Drawings submitted for approval.
CA	2	2		1	
TA			1	1	
TAA			1	1	
Other					
15. Total	2	2	2	3	

17. Contract File / Document #	18. Est # of Pages:	19. Estimated Price
		$

A. Annex Description		B. Contract/RFP Number:	
Annex B, SUAS Acquisition SOW Annex C, SUAS In Service Support SOW		W8476-133924_____	
C. SOW Identifier(s)	SUAS Acquisition SUAS In Service Support	D. Data Category	Airworthiness
E. System/Item			
F. Contractor			

1. Item No:	AW007	2. Title/Description:	SUAS Certificate of Conformance (CoC)
		3. Subtitle:	
4. Data Item Number:	AW-007	5. Contract Reference:	SUAS-A Para: 5.5.4.1 SUAS-S Para: 5.1.1

6. Requiring Office:	7. Inspection:	8. Approval Code:	9. Input:
TA and TAA	DD	A	

10. Frequency	11. As Of Date	12. 1st Submission	13. Date of Subsequent Sub Event ID
See block 16	See block 16	PROP	See block 16

14. Distribution and Addressees	Draft		Final		16. Remarks
	Paper	Electronic	Paper	Electronic	PROP: Current Airworthiness Clearance supporting documentation provided for airworthiness assessment of the current configuration. AS REQ: If/as required due to system enhancements or changes to the operational circumstances during the term of the Contract.
CA	2	2		1	
TA			1	1	
TAA			1	1	
Other					
15. Total	2	2	2	3	

17. Contract File / Document #	18. Est # of Pages:	19. Estimated Price
		$

A. Annex Description		B. Contract/RFP Number:	
Annex B, SUAS Acquisition SOW Annex C, SUAS In Service Support SOW		W8476-133924_____	
C. SOW Identifier(s)	SUAS Acquisition SUAS In Service Support	D. Data Category	Airworthiness
E. System/Item			
F. Contractor			

1. Item No:	AW008	2. Title/Description:	Airworthiness Management Plan (AMP)
		3. Subtitle:	
4. Data Item Number:	AW-008	5. Contract Reference:	SUAS-A Para: 5.6.2.1 SUAS-S Para: 5.2.2.1

6. Requiring Office:	7. Inspection:	8. Approval Code:	9. Input:
TA and TAA	DD	A	

10. Frequency	11. As Of Date	12. 1st Submission	13. Date of Subsequent Sub Event ID
See block 16	See block 16	PROP	See block 16

14. Distribution and Addressees	Draft		Final		16. Remarks
	Paper	Electronic	Paper	Electronic	PROP: Draft: Airworthiness Clearance supporting documentation provided for airworthiness assessment. 90 DACA: Submit completed plan for approval. AS REQ: If/as required due to system enhancements or changes to the operational circumstances during the term of the Contract.
CA	2	2		1	
TA			1	1	
TAA			1	1	
Other					
15. Total	2	2	2	3	

17. Contract File / Document #	18. Est # of Pages:	19. Estimated Price
		$

A. Annex Description				B. Contract/RFP Number:	
Annex B, SUAS Acquisition SOW Annex C, SUAS In Service Support SOW				W8476-133924_____	
C. SOW Identifier(s)	SUAS Acquisition SUAS In Service Support			D. Data Category	System Engineering
E. System/Item					
F. Contractor					

1. Item No:	SE001	2. Title/Description:	Interface Control Document
		3. Subtitle:	
4. Data Item Number:	SE-001	5. Contract Reference:	SUAS-A Para: 6.4.2, 6.4.3, 7.1.7.2.c SUAS-S Para:

6. Requiring Office:	7. Inspection:	8. Approval Code:	9. Input:
TA	DD	A	

10. Frequency	11. As Of Date	12. 1st Submission	13. Date of Subsequent Sub Event ID
AS REQ	60 DACA	See block 16	AS REQ

14. Distribution and Addressees	Draft		Final		16. Remarks
	Paper	Electronic	Paper	Electronic	60 DACA: For Canada's approval. AS REQ: When required in support of a TIES task or AWR.
CA				1	
TA	1	1	1	1	
Other	1	1	1		
15. Total	2	2	2	2	

17. Contract File / Document #	18. Est # of Pages:	19. Estimated Price
		$

A. Annex Description		B. Contract/RFP Number:	
Annex B, SUAS Acquisition SOW Annex C, SUAS In Service Support SOW		W8476-133924_____	
C. SOW Identifier(s)	SUAS Acquisition SUAS In Service Support	D. Data Category	System Engineering
E. System/Item			
F. Contractor			

1. Item No:	SE002	2. Title/Description:	Request for Deviations / Waivers
		3. Subtitle:	
4. Data Item Number:	SE-002	5. Contract Reference:	SUAS-A Para: 6.5.1.1, 6.5.1.2 SUAS-S Para: 6.4.4.1.1, 6.4.4.1.2

6. Requiring Office:	7. Inspection:	8. Approval Code:	9. Input:
TA	DD	A	

10. Frequency	11. As Of Date	12. 1st Submission	13. Date of Subsequent Sub Event ID
AS REQ	AS REQ	AS REQ	AS REQ

14. Distribution and Addressees	Draft		Final		16. Remarks
	Paper	Electronic	Paper	Electronic	AS REQ: As outlined in DID SE-002.
CA				1	
TA	1	1	1	1	
Other	1	1	1	1	
15. Total	2	2	2	3	

17. Contract File / Document #	18. Est # of Pages:	19. Estimated Price
		$

A. Annex Description		B. Contract/RFP Number:	
Annex B, SUAS Acquisition SOW Annex C, SUAS In Service Support SOW		W8476-133924_____	
C. SOW Identifier(s)	SUAS Acquisition SUAS In Service Support	D. Data Category	System Engineering
E. System/Item			
F. Contractor			

1. Item No:	SE003	2. Title/Description:	Configuration Management Plan
		3. Subtitle:	
4. Data Item Number:	SE-003	5. Contract Reference:	SUAS-A Para: 6.6.2, 6.6.3 SUAS-S Para: 6.4.1

6. Requiring Office:	7. Inspection:	8. Approval Code:	9. Input:
TA	DD	A	

10. Frequency	11. As Of Date	12. 1st Submission	13. Date of Subsequent Sub Event ID
AS REQ	See block 16	PROP	AS REQ

14. Distribution and Addressees	Draft		Final		16. Remarks
	Paper	Electronic	Paper	Electronic	PROP: Submit draft. Draft shall reflect recognized ISO and QA standard configuration management processes the Contractor shall already have in place for the UAS. 60 DACA: Final Configuration Management Plan for Hardware and Software shall be submitted for approval. AS REQ: Amend if/as necessary.
CA	2	2	1	1	
TA			1	1	
Other			1	1	
15. Total	2	2	3	3	

17. Contract File / Document #	18. Est # of Pages:	19. Estimated Price
		$

A. Annex Description		B. Contract/RFP Number:	
Annex B, SUAS Acquisition SOW Annex C, SUAS In Service Support SOW		W8476-133924_____	
C. SOW Identifier(s)	SUAS Acquisition SUAS In Service Support	D. Data Category	System Engineering
E. System/Item			
F. Contractor			

1. Item No:	SE004	2. Title/Description:	Application for Frequency Supportability
		3. Subtitle:	
4. Data Item Number:	SE-004	5. Contract Reference:	SUAS-A Para: 6.8.1 SUAS-S Para: 4.3.1

6. Requiring Office:	7. Inspection:	8. Approval Code:	9. Input:
TA	DD	A	

10. Frequency	11. As Of Date	12. 1st Submission	13. Date of Subsequent Sub Event ID
AS REQ	See block 16	PROP	See block 16

14. Distribution and Addressees	Draft		Final		16. Remarks
	Paper	Electronic	Paper	Electronic	PROP: For any components not already licensed for operation in Canada, draft submission with proposal using DND Form 552 or the US DoD equivalent. AS REQ: Updates to be submitted when any of the frequency capability of the equipment provided changes.
CA	2	2			
TA			1	1	
Other					
15. Total	2	2	1	1	

17. Contract File / Document #	18. Est # of Pages:	19. Estimated Price
		$

A. Annex Description				B. Contract/RFP Number:	
Annex B, SUAS Acquisition SOW Annex C, SUAS In Service Support SOW				W8476-133924_____	
C. SOW Identifier(s)	SUAS Acquisition SUAS In Service Support			D. Data Category	System Engineering
E. System/Item					
F. Contractor					

1. Item No:	SE005	2. Title/Description:	Acceptance Test Plan and Report
		3. Subtitle:	
4. Data Item Number:	SE-005	5. Contract Reference:	SUAS-A Para: 6.9.1 SUAS-S Para: 1.3.2, 6.6.2

6. Requiring Office:	7. Inspection:	8. Approval Code:	9. Input:
TA	DD	A	

10. Frequency	11. As Of Date	12. 1st Submission	13. Date of Subsequent Sub Event ID
See block 16	See block 16	PROP	See block 16

14. Distribution and Addressees	Draft		Final		16. Remarks
	Paper	Electronic	Paper	Electronic	PROP: Draft Acceptance Test Plan submitted. 90 DACA: Final plan submitted for approval. AS REQ: An updated Acceptance Test Plan may be requested by Canada. AS REQ: If applicable and requested by Canada, an Acceptance Test Report will be submitted 14 days after the conclusion of acceptance testing.
CA	2	2		1	
TA			1	1	
Other			1	1	
15. Total	2	2	2	3	

17. Contract File / Document #	18. Est # of Pages:	19. Estimated Price
		$

A. Annex Description		B. Contract/RFP Number:	
Annex B, SUAS Acquisition SOW Annex C, SUAS In Service Support SOW		W8476-133924_____	
C. SOW Identifier(s)	SUAS Acquisition SUAS In Service Support	D. Data Category	Integrated Logistics Support
E. System/Item			
F. Contractor			

1. Item No:	ILS001	2. Title/Description:	ILS Plan
		3. Subtitle:	
4. Data Item Number:	ILS-001	5. Contract Reference:	SUAS-A Para: 7.2.1 SUAS-S Para: 1.3.2, 4.4.1, 7.1.1.1

6. Requiring Office:	7. Inspection:	8. Approval Code:	9. Input:
TA	DD	A	

10. Frequency	11. As Of Date	12. 1st Submission	13. Date of Subsequent Sub Event ID
ONE/R	60 DACA	See block 16	See block 16

14. Distribution and Addressees	Draft		Final		16. Remarks
	Paper	Electronic	Paper	Electronic	60 DACA: ILS Plan and sub-plans shall reflect processes used to train and support other customers for the UAS.
CA	2	2	1	1	
TA			1	1	
Other					
15. Total	2	2	2	2	

17. Contract File / Document #	18. Est # of Pages:	19. Estimated Price
		$

A. Annex Description		B. Contract/RFP Number:	
Annex B, SUAS Acquisition SOW Annex C, SUAS In Service Support SOW		W8476-133924_____	
C. SOW Identifier(s)	SUAS Acquisition SUAS In Service Support	D. Data Category	Integrated Logistics Support
E. System/Item			
F. Contractor			

1. Item No:	ILS002	2. Title/Description:	Provisioning Documentation
		3. Subtitle:	
4. Data Item Number:	ILS-002	5. Contract Reference:	SUAS-A Para: 7.3.1 SUAS-S Para:

6. Requiring Office:	7. Inspection:	8. Approval Code:	9. Input:
TA	DD	A	

10. Frequency	11. As Of Date	12. 1st Submission	13. Date of Subsequent Sub Event ID
AS REQ	45 DACA	AS REQ	AS REQ

14. Distribution and Addressees	Draft		Final		16. Remarks
	Paper	Electronic	Paper	Electronic	45 DACA: As outlined in DID ILS-004. AS REQ: When required in support of a TIES task or AWR.
CA				1	
TA	1	1	1	1	
Other			1	1	
15. Total	1	1	2	3	

17. Contract File / Document #	18. Est # of Pages:	19. Estimated Price
		$

A. Annex Description		B. Contract/RFP Number:	
Annex B, SUAS Acquisition SOW Annex C, SUAS In Service Support SOW		W8476-133924_____	
C. SOW Identifier(s)	SUAS Acquisition SUAS In Service Support	D. Data Category	Integrated Logistics Support
E. System/Item			
F. Contractor			

1. Item No:	ILS003	2. Title/Description:	Drawing Package and Associated List
		3. Subtitle:	
4. Data Item Number:	ILS-003	5. Contract Reference:	SUAS-A Para: 7.6.1.2, 7.6.2, 7.6.4, 7.6.5, 7.6.7 SUAS-S Para: 7.1.2.1.2, 7.1.2.4

6. Requiring Office:	7. Inspection:	8. Approval Code:	9. Input:
TA	DD	A	

10. Frequency	11. As Of Date	12. 1st Submission	13. Date of Subsequent Sub Event ID
AS REQ	60 DACA	See block 16	AS REQ

14. Distribution and Addressees	Draft		Final		16. Remarks
	Paper	Electronic	Paper	Electronic	
CA		1		1	
TA	1	1	1	1	
Other	1	1	1	1	
15. Total	2	3	2	3	

60 DACA: Level 1, 2 and 3 drawing packages for applicable existing items.

AS REQ: 45 days after receipt of request for additional deliverables on request.

AS REQ: Limited to items maintained by the CF, special purpose items required to interface additional payloads to the Contractor Air Vehicles, and items developed for Canada during the program.

AS REQ: Applicable Level 3 production installation drawings to be accessible at Contractor facility when requested by Canada with 1 week notice.

AS REQ: If tasked the Contractor <u>shall</u> supply drawings and Interface Control Documents required to connect Canadian GFE payloads.

17. Contract File / Document #	18. Est # of Pages:	19. Estimated Price
		$

A. Annex Description		B. Contract/RFP Number:	
Annex B, SUAS Acquisition SOW Annex C, SUAS In Service Support SOW		W8476-133924_____	
C. SOW Identifier(s)	SUAS Acquisition SUAS In Service Support	D. Data Category	Integrated Logistics Support
E. System/Item			
F. Contractor			

1. Item No:	ILS004	2. Title/Description:	Maintenance Plan
		3. Subtitle:	
4. Data Item Number:	ILS-004	5. Contract Reference:	SUAS-A Para: 7.8.1 SUAS-S Para: 1.3.2, 4.5.1, 7.1.1.3

6. Requiring Office:	7. Inspection:	8. Approval Code:	9. Input:
TA	DD	A	

10. Frequency	11. As Of Date	12. 1st Submission	13. Date of Subsequent Sub Event ID
AS REQ	60 DACA	AS REQ	AS REQ

14. Distribution and Addressees	Draft		Final		16. Remarks
	Paper	Electronic	Paper	Electronic	60 DACA: Maintenance Plan, a sub-set of the Maintenance Plan, shall reflect processes used to support other customers for the SUAS. AS REQ: When required in support of a TIES task or AWR.
CA			1	1	
TA	1	1	1	1	
Other		1	1	1	
15. Total	1	2	3	3	

17. Contract File / Document #	18. Est # of Pages:	19. Estimated Price
		$

A. Annex Description		B. Contract/RFP Number:	
Annex B, SUAS Acquisition SOW Annex C, SUAS In Service Support SOW		W8476-133924_____	
C. SOW Identifier(s)	SUAS Acquisition SUAS In Service Support	D. Data Category	Integrated Logistics Support
E. System/Item			
F. Contractor			

1. Item No:	ILS005	2. Title/Description:	Recommended Spare Parts List (RSPL)
		3. Subtitle:	
4. Data Item Number:	ILS-005	5. Contract Reference:	SUAS-A Para: 7.9.1 SUAS-S Para:

6. Requiring Office:	7. Inspection:	8. Approval Code:	9. Input:
TA	DD	A	

10. Frequency	11. As Of Date	12. 1st Submission	13. Date of Subsequent Sub Event ID
ONE/R	See block 16	PROP	See block 16

14. Distribution and Addressees	Draft		Final		16. Remarks
	Paper	Electronic	Paper	Electronic	This document is a subset of the ILS Plan. PROP: Submit RSPL used in support of an existing Customer for review in the context of establishing that Bidder plans are based on appropriate understanding of system support requirements. 60 DACA: Submit Updated RSPL incorporating applicable Contract quantities and ILS plan factors. AS REQ: Submit RSPL amendment recommendations.
CA	2	2		1	
TA			2	1	
Other			1	1	
15. Total	2	2	3	3	

17. Contract File / Document #	18. Est # of Pages:	19. Estimated Price
		$

A. Annex Description				B. Contract/RFP Number:	
Annex B, SUAS Acquisition SOW Annex C, SUAS In Service Support SOW				W8476-133924_____	
C. SOW Identifier(s)	SUAS Acquisition SUAS In Service Support			D. Data Category	Integrated Logistics Support
E. System/Item					
F. Contractor					

1. Item No:	ILS006	2. Title/Description:	Publications Management Plan
		3. Subtitle:	
4. Data Item Number:	ILS-006	5. Contract Reference:	SUAS-A Para: 7.1.5.1 SUAS-S Para: 1.3.2, 4.6.1

6. Requiring Office:	7. Inspection:	8. Approval Code:	9. Input:
TA	DD	A	

10. Frequency	11. As Of Date	12. 1st Submission	13. Date of Subsequent Sub Event ID
AS REQ	45 DACA	AS REQ	AS REQ

14. Distribution and Addressees	Draft		Final		16. Remarks
	Paper	Electronic	Paper	Electronic	This document is a subset of the ILS Plan. 45 DACA: Submit proposed plan for management of publications AS REQ: If tasked to manage publications, amend plan for management of additional publications when tasked.
CA				1	
TA		1	2	1	
Other				1	
15. Total		1	2	3	

17. Contract File / Document #	18. Est # of Pages:	19. Estimated Price
		$

A. Annex Description				B. Contract/RFP Number:	
Annex B, SUAS Acquisition SOW Annex C, SUAS In Service Support SOW				W8476-133924_____	
C. SOW Identifier(s)	SUAS Acquisition SUAS In Service Support			D. Data Category	Integrated Logistics Support
E. System/Item					
F. Contractor					

1. Item No:	ILS007	2. Title/Description:	Technical Publications
		3. Subtitle:	
4. Data Item Number:	ILS-007	5. Contract Reference:	SUAS-A Para: 7.17.2.b, 7.17.2.e SUAS-S Para:

6. Requiring Office:	7. Inspection:	8. Approval Code:	9. Input:
TA	DD	A	

10. Frequency	11. As Of Date	12. 1st Submission	13. Date of Subsequent Sub Event ID
AS REQ	45 DACA	AS REQ	AS REQ

14. Distribution and Addressees	Draft		Final		16. Remarks
	Paper	Electronic	Paper	Electronic	45 DACA: For Canada's approval. AS REQ: When required in support of a TIES task or AWR.
CA				1	
TA	1	1	1	1	
Other	1	1	1	1	
15. Total	2	2	2	3	

17. Contract File / Document #	18. Est # of Pages:	19. Estimated Price
		$

A. Annex Description				B. Contract/RFP Number:	
Annex B, SUAS Acquisition SOW Annex C, SUAS In Service Support SOW				W8476-133924_____	
C. SOW Identifier(s)	SUAS Acquisition SUAS In Service Support			D. Data Category	Integrated Logistics Support
E. System/Item					
F. Contractor					

1. Item No:	ILS008	2. Title/Description:	Special Tools and Test Equipment (STTE) List
		3. Subtitle:	
4. Data Item Number:	ILS-0008	5. Contract Reference:	SUAS-A Para: 7.18.2 SUAS-S Para:

6. Requiring Office:	7. Inspection:	8. Approval Code:	9. Input:
TA	DD	A	

10. Frequency	11. As Of Date	12. 1st Submission	13. Date of Subsequent Sub Event ID
OTIME	AS REQ	PROP	AS REQ

14. Distribution and Addressees	Draft		Final		16. Remarks
	Paper	Electronic	Paper	Electronic	PROP: As outlined in DID ILS-008. AS REQ: When required in support of a TIES task or AWR.
CA	2	2		1	
TA			2	1	
Other					
15. Total	2	2	2	2	

17. Contract File / Document #	18. Est # of Pages:	19. Estimated Price
		$

A. Annex Description		B. Contract/RFP Number:	
Annex B, SUAS Acquisition SOW Annex C, SUAS In Service Support SOW		W8476-133924_____	
C. SOW Identifier(s)	SUAS Acquisition SUAS In Service Support	D. Data Category	Integrated Logistics Support
E. System/Item			
F. Contractor			

1. Item No:	ILS009	2. Title/Description:	Summary of Contractor Operator Qualifications & Authorizations
		3. Subtitle:	
4. Data Item Number:	ILS-009	5. Contract Reference:	SUAS-A Para: 7.19.9.1 SUAS-S Para: 4.1.6.1

6. Requiring Office:	7. Inspection:	8. Approval Code:	9. Input:
TA	DD		

10. Frequency	11. As Of Date	12. 1st Submission	13. Date of Subsequent Sub Event ID
ONE/R	See block 16	PROP	See block 16

14. Distribution and Addressees	Draft		Final		16. Remarks
	Paper	Electronic	Paper	Electronic	PROP: The Contractor shall provide existing documentation confirming Contractor operator qualifications and authorizations, UAV specific training, training standards and currency requirements ASREQ: The Contractor shall provide an update if it standards change
CA	2	2		1	
TA			1	1	
Other				1	
15. Total	2	2	1	3	

17. Contract File / Document #	18. Est # of Pages:	19. Estimated Price
		$

A. Annex Description		B. Contract/RFP Number:	
Annex B, SUAS Acquisition SOW Annex C, SUAS In Service Support SOW		W8476-133924_____	
C. SOW Identifier(s)	SUAS Acquisition SUAS In Service Support	D. Data Category	Training
E. System/Item			
F. Contractor			

1. Item No:	T001	2. Title/Description:	Training Plan
		3. Subtitle:	
4. Data Item Number:	Trg-001	5. Contract Reference:	SUAS-A Para: 7.19.2.1 SUAS-S Para: 1.3.2, 4.7.1

6. Requiring Office:	7. Inspection:	8. Approval Code:	9. Input:
TA	DD	A	

10. Frequency	11. As Of Date	12. 1st Submission	13. Date of Subsequent Sub Event ID
See block 16	AS REQ	PROP	AS REQ

14. Distribution and Addressees	Draft		Final		16. Remarks
	Paper	Electronic	Paper	Electronic	PROP: Training Course Outlines for system operators and supervisors, including Provisional training course dates. 30 DACA: To ensure a clear understanding of this DID, DND will respond with feedback within 7 days of receipt by LF ISTAR staff. AS REQ: Amended TMP submissions as/if required.
CA	2	2		1	
TA			1	1	
Other			1	1	
15. Total	2	2	2	3	

17. Contract File / Document #	18. Est # of Pages:	19. Estimated Price
		$

A. Annex Description		B. Contract/RFP Number:	
Annex B, SUAS Acquisition SOW Annex C, SUAS In Service Support SOW		W8476-133924_____	
C. SOW Identifier(s)	SUAS Acquisition SUAS In Service Support	D. Data Category	Training
E. System/Item			
F. Contractor			

1. Item No:	T002	2. Title/Description:	Recommended Training Materials List (RTML)
		3. Subtitle:	
4. Data Item Number:	Trg-002	5. Contract Reference:	SUAS-A Para: 7.19.2.1, 7.19.4.2 SUAS-S Para:

6. Requiring Office:	7. Inspection:	8. Approval Code:	9. Input:
TA	DD	A	

10. Frequency	11. As Of Date	12. 1st Submission	13. Date of Subsequent Sub Event ID
See block 16	45 DACA	PROP	AS REQ

14. Distribution and Addressees	Draft		Final		16. Remarks
	Paper	Electronic	Paper	Electronic	PROP: Draft list based on training materials used with previous customers 45 DACA: The contractor will provide a Recommended Training Materials List document detailing the resources required for the conduct of training. AS REQ: When required in support of a TIES task or AWR.
CA	2	2		1	
TA			1	1	
Other			1	1	
15. Total	2	2	2	3	

17. Contract File / Document #	18. Est # of Pages:	19. Estimated Price
		$

A. Annex Description		B. Contract/RFP Number:	
Annex B, SUAS Acquisition SOW Annex C, SUAS In Service Support SOW		W8476-133924_____	
C. SOW Identifier(s)	SUAS Acquisition SUAS In Service Support	D. Data Category	Training
E. System/Item			
F. Contractor			

1. Item No:	T003	2. Title/Description:	Training Documentation
		3. Subtitle:	
4. Data Item Number:	Trg-003	5. Contract Reference:	SUAS-A Para: 7.19.5.1 SUAS-S Para:

6. Requiring Office:	7. Inspection:	8. Approval Code:	9. Input:
TA	DD	A	

10. Frequency	11. As Of Date	12. 1st Submission	13. Date of Subsequent Sub Event ID
See block 16	45 DACA	See block 16	AS REQ

14. Distribution and Addressees	Draft		Final		16. Remarks
	Paper	Electronic	Paper	Electronic	45 DACA: The contractor <u>shall</u> deliver training support documentation to Canada to assist Canada with establishing a high quality training system in support of SUAS fielding, operations and capability sustainment. AS REQ: When required in support of a TIES task or AWR.
CA				1	
TA		1	1	1	
Other		1	1	1	
15. Total		2	2	3	

17. Contract File / Document #	18. Est # of Pages:	19. Estimated Price
		$

APPENDIX 2

TO

ANNEX E

DATA ITEM DESCRIPTIONS (DID)

CANADIAN ARMY

SMALL UNMANNED AIRCRAFT SYSTEM (SUAS) CAPABILITY

DATA ITEM DESCRIPTIONS (DID)

For the Canadian Forces Small Unmanned Aerial Vehicle (SUAV) System Capability.

CDRL Item Number	Data Item Description Number	Title	Acquisition SOW References	Support SOW References
PM001	PM-001	Project Management Plan	4.1.1	1.3.2, 4.1.2
PM002	PM-002	Meeting Minutes	4.2.6	4.1.4.6
PM003	PM-003	Reports	4.3.1	4.1.5.1, 8.18.1
PM004	PM-004	Contractor Risk Management Plan	4.4.1	1.3.2, 4.2.1
AW001	AW-001	SUAS Product Description Package	5.4.2.1	5.1.1
AW002	AW-002	System Safety Assessment & Functional Hazard Assessment	5.4.3.1	5.1.1
AW003	AW-003	SUAS Flight Manuals	5.4.4.1, 7.17.2.a	5.1.1
AW004	AW-004	SUAS Special Type Certificate Data Sheet (SS/TCDS)	5.4.5.1	5.1.1
AW005	AW-005	SUAS Established Safety Record	5.4.6.1	5.1.1
AW006	AW-006	SUAV Identification Markings Drawings	5.5.3.1	5.1.1
AW007	AW-007	SUAV Certificate of Conformance (CoC)	5.5.4.1	5.1.1
AW008	AW-008	Airworthiness Management Plan (AMP)	5.6.2.1	5.2.2.1
SE001	SE-001	Interface Control Document (ICD)	6.4.2, 6.4.3, 7.17.2.c	
SE002	SE-002	Request for Deviations / Waivers	6.5.1.1, 6.5.1.2	6.4.4.1.1, 6.4.4.1.2
SE003	SE-003	Configuration Management Plan:	6.6.2, 6.6.3	6.4.1
SE004	SE-004	Application for Frequency Supportability	6.8.1	4.3.1
SE005	SE-005	Acceptance Test Plan and Report	6.9.1	1.3.2, 6.6.2
ILS001	ILS-001	Integrated Logistics Support (ILS) Plan	7.2.1	1.3.2, 4.4.1, 7.1.1.1
ILS002	ILS-002	Provisioning Documentation	7.3.1	
ILS003	ILS-003	Drawing Package and Associated Lists	7.6.1.2, 7.6.2, 7.6.4, 7.6.5, 7.6.7	7.1.2.1.2, 7.1.2.4

CDRL Item Number	Data Item Description Number	Title	Acquisition SOW References	Support SOW References
ILS004	ILS-004	Maintenance Plan	7.8.1	1.3.2, 4.5.1, 7.1.1.3
ILS005	ILS-005	Recommended Spare Parts List (RSPL)	7.9.1	
ILS006	ILS-006	Publication Management Plan	7.15.1	1.3.2, 4.6.1
ILS007	ILS-007	Technical Publications	7.17.2.b, 7.17.2.e	
ILS008	ILS-008	Special Tools and Test Equipment (STTE) List	7.18.2	
ILS009	ILS-009	Summary of Contractor Operator Qualifications & Authorizations	7.19.9.1	4.1.6.1
T001	Trg-001	Training Plan (TMP)	7.19.2.1	1.3.2, 4.7.1
T002	Trg-002	Recommended Training Materials List (RTML)	7.19.2.1, 7.19.4.2	
T003	Trg-003	Training Documentation	7.19.5.1	

DID FORMAT DESCRIPTION: The following defines the various blocks of information found on the Data Item Description (DID) forms:

BLOCK 1 – Title: A short descriptive name that identifies its nature and distinguishes it from any other DID.

BLOCK 2 – Identification Number: The Identification Number is an alphanumeric allocation representing a functional area of responsibility that uniquely identifies the DID. They are expressed as follows:

PM-00 Project Management

AW-00 Airworthiness

SE-00 System Engineering

ILS-00 Integrated Logistics Support (ILS)

Trg-00 Training Requirements

BLOCK 3 – Description / Purpose: A concise description of the data content requirements that identifies the purpose for which the DID is required.

BLOCK 4 - DID Approval Date: Date that the DID was approved by the originator.

BLOCK 5 - Office Of Primary Interest (OPI): The authority responsible for specifying the data requirement.

BLOCK 6 - GIDEP Applicable: “X” indicates that the data is to be submitted by a Government organization or the Contractor to the Government/Industry Data Exchange Program (GIDEP).

BLOCK 7 - Application / Interrelationship: Provides the application details and interrelationship of the data item to other DIDs or documents.

BLOCK 8 - Originator: The originator of the DID.

BLOCK 9 - Applicable Forms: Indicates any form needed to prepare the data.

BLOCK 10 - Preparation Instructions: Describes the data content and format that the data item must satisfy.

DATA ITEM DESCRIPTION				
1. Title		2. Identification #	Page #	
Project Management Plan		PM-001	1 of 3	
3. Description / Purpose				
The Project Management Plan (PMP) shall ensure that all Project Management (PM) activities are fully integrated with the Systems Engineering and Integrated Logistics Support (ILS) activities such that the schedule, cost and risk elements associated with the SUAS are fully managed and controlled.				
4. DID Approval Date	5. Office of Primary Interest (OPI)		6. GIDEP Applicable	
2013-05-24	Project Manager (PM) Canadian Army Family of Unmanned Aircraft Systems (FUAS)			
7. Application / Interrelationship		8. Originator	9. Applicable Forms	
SUAS-A, CDRL PM001, SOW Para: 4.1.1 SUAS-S, CDRL PM001, SOW Para: 1.3.2, 4.1.2		Technical Authority (TA)		
CDRL, DID	CDRL, DID	CDRL, DID	CDRL, DID	
PM004, PM-004	SE004 SE-004	ILS003 ILS-003	ILS009 ILS-009	
AW008 AW-008	SE005 SE-005	ILS006 ILS-006	T001 Trg-001	
SE003 SE-003	ILS001 ILS-001	ILS007 ILS-007		

10. Preparation Instructions

10.1 Format: The PMP and associated plans shall be prepared in Contractor format.

10.1.1 The PMP encompasses management of all associated plans and activities required to deliver the ISR service and related technical, training and task support. The PMP shall contain sufficient detail to describe how the required activities will be conducted.

10.2 Contractor's Project Organizational Structure. The Data shall clearly identify in the PMP the approach, methods and procedures required to successfully carry out the project management in support of the SOW and any systems engineering and integrated logistic support work in support of specific tasks. The PMP shall also contain an organizational structure chart with Contractor and sub-Contractor(s) organizational and individual responsibilities including office of prime interest, telephone numbers, internet e-mail address, authorities and reporting channels. The specific SUAS Project Organizational Chart(s) shall reflect the following:

a. the Project Manager's position with the responsibility and authority as per the SOW;

b. a hierarchical breakdown of positions complete with responsibilities, and

c. the identification of all "key signatory" positions and personnel who will certify work.

DATA ITEM DESCRIPTION	PM-001	Page	of
10. Preparation Instructions (continued)		2	3

10.3 Project Planning and Control. The Data shall identify the support functions to be carried out during the Contract. This includes the engineering functions to be carried out during the Contract in support of Technical Investigation and Engineering Support tasks and Additional Work Requests. The Data shall explain how these functions are delegated to the personnel assigned to the various project teams. The PMP shall show the relationship and lines of communication between the Contractor's project team members and:

a. The Contract Management;

b. The PWGSC Contract Authority;

c. The DND Project Manager; and

d. The Sub-Contractors.

10.4 Resource and Cost Control. The Data shall describe the resource and cost control practices used to measure, track and control the work elements.

10.5 Work Breakdown Structure. The Data shall include in the PMP a product-oriented Work Breakdown Structure (WBS), which shall encompass all work elements necessary for the accomplishment of each task as detailed in the SOW. The WBS shall be produced to a minimum of the third level and is to be used for co-ordination of technical and management activities. Lower levels shall be produced as required to avoid WBS elements spanning multiple product teams.

10.6 Work Breakdown Structure Dictionary. The WBS dictionary shall include the following information:

a. WBS element ID;

b. A brief description of the activities scheduled;

c. Identification of the responsible Contractor's department or product team, and

d. The identification and description of milestones.

10.7 Milestones. The Milestones list shall include the following information:

a. Task ID;

b. Task name;

c. Task description;

d. WBS element ID; and

e. The baseline date planned for completion.

10.8 Master Schedule. The Data shall include a Critical Path Method (CPM) master schedule reflecting the major activities and milestones for the contracted work. The schedule shall be generated and maintained by scheduling software such as Microsoft Project. The schedule shall be displayed as a GANTT chart and include the following information as a minimum:

a. Task ID;

DATA ITEM DESCRIPTION	PM-001	Page	of
10. Preparation Instructions (continued)		3	3

b. Task name;

c. WBS element ID;

d. Start and stop dates;

e. Critical path;

f. Slack (Slack is defined as the amount of time a task can slip before it affects another task's dates or the project finish date);

g. Performance metrics information; and

h. A legend describing any symbols used in the schedule.

10.9 Sub-Contract Management. To ensure effective surveillance and control of each sub-contractor, the Data shall describe the process that will be used to control performance, cost, and the schedule of work to be completed by sub-contractors.

10.10 Risk Management. The Data shall describe how risks to the Project will be identified and assessed, and how risk control action will be developed and implemented. The Data shall include an initial risk assessment with associated risk mitigation plan at proposal and this assessment shall be updated as additional risks are identified throughout this contract. Obsolescence issues shall also be dealt with in this section. The Contractor shall continuously monitor the project for risks and identify them as being low, medium or high. All program risks, once identified, shall be reported to the Government within two (2) business days. A risk mitigation sheet shall be provided to the government within 10 business days. Attachment 1 to this DID provides guidance on the format of the risk mitigation sheet as well as a graph to classify low, medium and high risks. These mitigation plans shall be reviewed as often as deemed necessary.

10.11 Management and Accountability for Government Furnished Equipment (GFE). The Data shall describe the process by which any GFE will be managed.

10.12 Proof of Compliance. The Data shall describe how compliance of the SUAS function in accordance with the SOR will be demonstrated.

10.13 DND Resource Dependencies. The areas where the Contractor expects there to be dependencies on DND resources shall be identified including level of effort, duration and timeframe.

10.14 Reviews, Audits and Reports. The Data shall describe or make reference to the appropriate plans and procedures, how reviews and audits will be conducted, and how reports will be generated.

10.15 Performance Measurements and Reporting. The Data shall describe the mechanisms to be employed to provide contract performance measurement information.

DATA ITEM DESCRIPTION				
1. Title		2. Identification Number	Page #	
Meeting Minutes		PM-002	1 of 2	
3. Description / Purpose				
Meeting Minutes are used to document the discussions at meetings between representatives of the Government and the Contractor, with particular emphasis on decisions and action items. The Meeting Minutes shall not convey executive authority to enact decisions made at the meeting. DND will have the final approval authority for all agendas and minutes of meetings and reviews.				
4. DID Approval Date	5. Office of Primary Interest(OPI)		6. GIDEP Applicable	
2013-05-24	PM FUAS			
7. Application / Interrelationship		8. Originator	9. Applicable Forms	
SUAS-A: CDRL PM002, SOW Para 4.2.6 SUAS-S: CDRL PM002, SOW Para 4.1.4.6		TA		

10. Preparation Instructions

10.1 Format:

10.1.1 Contractor format is acceptable. Hard copies shall use 8.5 inch x 11 inch (216 mm x 279 mm) paper. Soft copies shall be compatible with MS Office Suite 2003.

10.2 Content:

10.2.1 The introductory information shall contain the following:

a. Contract Number and Contract Title

b. Title of meeting (e.g. Progress Review Meeting);

c. The meeting location, date and start time;

d. The overall purpose and/or objective of the meeting;

e. Name and title of the Chairperson;

f. A list of the names, titles and organizations of persons that attended and those that were absent; and

g. Signature blocks for one Contractor approval authority and one Government approval authority.

10.2.2 The body shall contain the following two sections:

a. Review of Action Items – A review of the action items from previous meetings as follows:

(1) Open – For action items that have not yet been completed, the agenda item and the open action item(s) are to be brought forward from the previous Meeting Minutes to the current Meeting Minutes and annotated with an applicable status indicator such as “On Going” and an appropriate explanation.

DATA ITEM DESCRIPTION	PM-002	Page	of
10. Preparation Instructions (continued)		2	2

(2) Recently Closed – For action items that have been completed but not yet recorded as such in any previous Meeting Minutes, the agenda item and recently closed action item(s) are to be brought forward from the previous Meeting Minutes to the current Meeting Minutes and annotated as "Closed" and an appropriate explanation.

(3) Previously Closed – Items that were annotated as "Closed" in a previous Meeting Minutes are excluded from subsequent Meeting Minutes.

b. New Business – The New Business section shall contain the new topics of discussion, organized per the listing provided in the Meeting Agenda. For each item the following shall be provided:

(1) ID – The ID from the Meeting Agenda;

(2) Item – The topic title from the Meeting Agenda;

(3) Discussion – A brief encapsulation of only the discussion points that are pertinent to understanding the context of the Decision. It's not necessary to document a lengthy record of the entire deliberation;

(4) Decision – A concise record of the decision reached to fulfil the stated purpose and/or accomplish the stated objective of the discussion as recorded in the Agenda.

(5) Action – A listing of the action(s) necessary to execute the decision, and for each action item, the name of the person(s) assigned responsibility for fulfilling them and the key dates.

10.2.3 The concluding information shall contain the proposed date, time and location of any follow-up meeting.

10.2.4 Copies of all documentation tabled at the meeting shall be appended to the minutes including:

a. an updated copy of the Meeting Agenda reflecting the actual agenda for the meeting as conducted.

b. for Progress review Meetings, a copy of the Action Item Registry as at the end of the meeting.

10.3 The following note shall be added to all meeting minutes:

Note: The following minutes reflect the topics discussed during the meeting referred to above and will be used by the parties for guidance, direction or information as appropriate. These minutes are not to be construed as changing the scope of work or the obligations of the parties under contract or as authorizing a change to the contract. Changes can only be introduced into the contract in accordance with the Contract Changes and Amendments Articles.

DATA ITEM DESCRIPTION		
1. Title	2. Identification Number	Page #
Reports	PM-003	1 of 4

3. Description / Purpose

Each report summarizes the Contractor's progress in relation to the project milestones, schedules, plans and deliverables. It provides the status of project management, manufacturing, Repair and Support work achieved versus that planned and highlights risks, problem areas and corrective actions being taken to resolve issues.

4. DID Approval Date	5. Office of Primary Interest(OPI)	6. GIDEP Applicable
2013-05-24	PM FUAS	

7. Application / Interrelationship	8. Originator	9. Applicable Forms
SUAS-A: CDRL PM003, SOW Para 4.3.1 SUAS-S: CDRL PM003, SOW Para 4.1.5.1, 8.18.1	TA	

10. Preparation Instructions

10.1 Format:

10.1.1 Contractor format is acceptable. Hard copies shall use 8.5 inch x 11 inch (216 mm x 279 mm) paper. Soft copies shall be compatible with MS Office Suite 2003.

10.1.2 If any Contractor confidential material is required it shall be separate from the bulk of the document so that the report can be distributed freely.

10.2 Content:

10.2.1 The Progress Report shall include the following parts:

a. Title Page. The Title Page shall contain the project name, contract number, the Contractor's name, the report name and date, and the signature and signature block including contact information of the individual responsible for the content of the report;

b. Part 1 – Executive Summary;

c. Part 2 – Manufacturing Report (when there are incomplete new equipment deliveries); and

d. Part 3. – Repair and Overhaul (R&O) Report (when there are ongoing repairs, or repairs have been completed within the previous three months).

10.2.2 Part 1 – Executive Summary:

10.2.2.1 The Executive Summary shall provide:

a. a Project Management Summary;

b. a summary of the detailed System Engineering Report described in Part 2; and

c. a summary of the R&O Report described in Part 3.

10.2.2.2 The Project Management Summary shall include the following information:

DATA ITEM DESCRIPTION	PM-003	Page	of

10. Preparation Instructions (continued)		2	4

a. Description of overall progress against the Master Project Schedule with explanation of any slippages;

b. Progress against major milestones, expected date of completion of near major milestones, problem areas and work around plans where required;

c. Identification/update of medium and high risks;

d. Summarized status of each deliverable item and open task;

e. Status of Contract Amendments, Design Changes, Deviations and Waivers (if applicable);

f. Status of open Action Items (if applicable);

g. New problems/issues and any other areas of concern, interest or importance (if applicable);

h. Overall financial review; and

i. Planned activities for the following reporting period (if applicable).

10.2.2.3 The Manufacturing Report summary should be no more than two (2) pages in length.

10.2.2.4 The R&O Report summary should be no more than two (2) pages in length.

10.2.3 Part 2 – System Engineering Report:

10.2.3.1 The System Engineering Report shall include the following sub reports:

a. Manufacturing Schedule, Issues, Risks and Work In Progress (WIP) Report;

b. Proof of Compliance Reports (when applicable);

c. Quality Assurance Report; and

d. Shipping Reporting.

10.2.3.2 Manufacturing Schedule, Issues, Risks and WIP Report:

10.2.3.2.1 The Manufacturing Schedule, Issues, Risks and WIP sub Report shall include the following sub sub Reports:

a. Manufacturing Schedule, Issues, Risks and WIP Summary Report;

b. Manufacturing Schedule;

c. Delivery Schedule - Issues and Risk Report; and

d. Work in Progress (WIP) Report.

10.2.3.2.2 Manufacturing Schedule. Description of progress to the Manufacturing Schedule with explanation of any slippages, in addition to:

a. Progress against manufacturing milestones, expected date of completion of near milestones, problem areas and workaround plans where required;

DATA ITEM DESCRIPTION	PM-003	Page	of
10. Preparation Instructions (continued)		2	4

b. New manufacturing problems/issues and any other areas of concern, interest or importance; and

c. Planned manufacturing activities for the following reporting period.

10.2.3.2.3 Delivery Schedule - Issues and Risk Report.

10.2.3.2.3.1 The Data shall provide a monthly Delivery Schedule - Issues and Risk Report outlining the risks or issues impacting the delivery schedule, as well as impacting or potentially impacting the delivery schedule in the future. Contractor mitigation strategies to reduce each risk item or issue shall be documented within the same report.

10.2.3.2.4 Work in Progress (WIP) Report.

10.2.3.2.4.1 The Data shall include a monthly Work in Progress Report indicating the work performed during the month.

10.2.3.2.5 Technical Investigation reports, Equipment Failure reports and follow-up on previous failures (when applicable).

10.2.3.3 Quality Assurance (QA) Report

10.2.3.3.1 The Data shall include a QA report for SUAS. The Report shall contain, at a minimum, the following content:

a. Status and changes to quality measurement systems that involve or impact the assembly and test;

b. Issues impacting the control of current builds, configurations, firmware and revisions of the equipment manufactured. The Data shall explain statistical results on non-conforming material identified during assembly, test, configuration and shipment;

c. The Data may include additional information where appropriate.

10.2.3.4 Shipping Report

10.2.3.4.1 The Shipping sub Report shall include the following sub Reports:

a. Shipment Summary Report;

b. Shipment to/from DND Supply System Report. The Data shall report on all product shipped to/from the DND Supply System or any other facility external to the manufacturer. Items shall be tracked and reported by serial number where applicable;

c. Warranty Returns Report (when applicable); When applicable the Data shall include a report listing all products returned under warranty from DND. In most cases these units will be retuned via the DND Supply System. This report shall list the returns based on their serial number, field tests which caused the return, results of Contractor tests, root cause analysis of failures, trends and modifications made to repair the product; and

d. Warranty Period by Serial Number (when applicable). The Data shall indicate the warranty start and end dates for all product delivered by the Contractor to the TA.

DATA ITEM DESCRIPTION	PM-003	Page	of
10. Preparation Instructions (continued)		4	4

10.2.4 Part 3 – R&O Report"

10.2.4.1 When there are CF owned parts under Contractor control for the purpose of repairs, whether the items are at the Contractor facility or in shipment by the Contractor, the Report shall include a Repair and Overhaul section providing the following details:

a. Item name;

b. Item part number;

c. Item serial number (if applicable);

d. Repair or overhaul work required;

e. Hours of repair or overhaul work required;

f. Anticipated repair cost;

g. Expected due date for return to Canada; and

h. Comments. (I.e.: Was it a warranty or non-warranty repair, was there unusual damage or an unexpected failure mode, why did repair time exceed expected repair time, problems encountered, etc.)

10.2.4.2 The R&O Report shall include a copy of the database listing details of all warranty and non-warranty repairs undertaken.

DATA ITEM DESCRIPTION				
1. Title		2. Identification Number	Page #	
Contractor Risk Management Plan		PM-004	1 of 2	
3. Description / Purpose				
The Contractor Risk Management Plan (CRMP) defines the procedures and methods to be used in identifying, analyzing, reporting, tracking and evaluating risk. It describes the process to be used in the early identification of potential problem areas, and the procedures for problem reduction and resolution.				
4. DID Approval Date	5. Office of Primary Interest(OPI)		6. GIDEP Applicable	
2013-05-24	PM FUAS			
7. Application / Interrelationship		8. Originator	9. Applicable Forms	
SUAS-A: CDRL PM004, SOW Para 4.4.1 SUAS-S: CDRL PM004, SOW Para 1.3.2, 4.2.1		TA		

10. Preparation Instructions

10.1 Format: Contractor format.

10.2 Content:

10.2.1 The plan shall contain, as a minimum, the following sections:

a. Introduction, Purpose and Scope;

b. Concept for management of risk;

c. Risk prediction methodology;

d. Problem and risk identification methods;

e. Problem and risk analysis methods;

f. Problem resolution methodology;

g. Problem review and lessons learned analysis methodology;

h. Problem reporting methodology;

i. Operational Loss Risks;

j. Attrition Rate Data.

10.2.2 The Data shall detail/demonstrate the Contractor's capability to replace assets lost or destroyed within 45 calendar days.

10.3 Attrition Rate Data:

10.3.1 The Contractor shall provide the attrition data in a table that states the typical attrition losses and the associated replacement costs to be expected over an annual total of 4,200 operational flight hours in a deployed theatre of operations and 1,000 training flight hours for a total of 5,200 flight hours.

DATA ITEM DESCRIPTION	PM-004	Page	of
10. Preparation Instructions (continued)		2	2

10.3.1.1 Routine Attrition. During handling, launches and landings, aircraft and components will incur cumulative damages. These aircraft will typically be processed through the ILS program and repair/condemn decisions will be made IAW the ILS program terms and conditions agreed.

10.3.1.2 Operational Attrition. Aircraft successfully launched and dispatched on missions that fail to return should typically fall into two (2) categories:

10.3.1.2.1 Aircraft that fail to return due to technical failure, navigation failure, communications failures, power failures due to battery life below expectancy, etc. experienced during the mission, and

10.3.1.2.2 Aircraft that Canada has knowingly kept on station due to operational commitments until the SUAV cannot complete the return trip, or knowing that inclement weather or other known factors significantly increase the risk of loss.

10.3.2 When the loss arises from situations where Canada exceeded the System capability claimed by the Contractor, then Canada will deem the loss to be due to operational decisions at Canada's cost. The loss will not be included in typical attrition calculations.

DATA ITEM DESCRIPTION			
1. Title		2. Identification Number	Page #
Product Description Package (PDP)		AW-001	1 of 4
3. Description / Purpose			
This package shall provide a description of the final deliverable configuration of the complete SUAS, and provide data concerning SUAS operation.			
4. DID Approval Date	5. Office of Primary Interest(OPI)		6. GIDEP Applicable
2013-05-24	PM FUAS		
7. Application / Interrelationship		8. Originator	9. Applicable Forms
SUAS-A: CDRL AW001, SOW Para 5.4.2.1 SUAS-S: CDRL AW001, SOW Para 5.1.1		TA	

10. Preparation Instructions

10.1 Format: Contractor format.

10.2 General:

10.2.1 The PDP shall follow generally accepted specification practices. The PDP may be a single document or a compilation of documents, provided that the data submitted accurately and unambiguously reflects the final delivered configuration of the complete system product.

10.3 Details: Without limiting any section, the PDP shall include specific details of:

a. :System Overview.

(1) Brief system development history;

(2) An Operational history summary which substantiates the Contractors claimed System maturity and reliability, including: hours flown/operated, losses including causes, fault arising rates, brief details of significant airworthiness issues and resolution;

(3) Any Special Conditions including Support Documentation;

(4) A structural block diagrams for all main system and subsystem, with accompanying theory of operation.

b. Equipment Delivery List. List of all the SUAS items delivered under the contract.

c. System Architecture. Described in AW-002.

d. Component Software Descriptions. This section/document(s) shall provide a description of every major software component of the system within which it executes.

DATA ITEM DESCRIPTION	AW-001	Page	of
10. Preparation Instructions (continued)		2	4

e. Hardware Component Descriptions. This section/document(s) shall provide a detailed description of Hardware Component of the system. Detailed information on the physical and performance characteristics of the component shall be provided along with a description of each major assembly contained within the system. An architecture diagram shall be used to illustrate the interrelationship between the various major assemblies of the system component.

f. Interface Descriptions. This section/document(s) shall provide a detailed description of each Internal and External interface of the system. Each Interface external to the system shall be described in detailed quantitative terms (e.g., input/output voltages, dimensions, tolerances, loads, speeds, etc.).

g. Operational Scenarios. This section/document(s) describe typical operational scenarios where the SUAS could be used.

h. Installation Description. This section/ document(s) shall provide a detailed description of the physical installations of the various elements of the System. The installation description shall include the following equipment physical properties/information for the System:

(1) Envelope dimensions. - list length, width, and height of equipment, excluding packaging. If equipment folds for storage, list both storage and operating dimensions;

(2) Weight. List weight of equipment, excluding packaging; and

(3) Safety provisions. The provisions and equipment necessary to protect personnel and equipment, including sound attenuation and fire detection and suppression requirements, shall be stated.

i. Batteries: System documentation shall state the battery temperature ranges for which the System is compliant, and the number of expected battery charge cycles.

10.4 The Data shall include the information requested below. The Data may provide the required information in Contractor format. Information required includes the system performance and safety related statistics, and design/operation characteristics used to provide optimal system operational safety and reliability.

10.4.1 What is the total number of accumulated hours of service in support of military operations?

10.4.2 What is the total number of accumulated hours of service in support of military operations for Australia, United Kingdom, United States and/or other NATO countries?

10.4.3 Where has the system flown in support of military operations?

10.4.4 What is the launch safety template when operating from a site situated at 7,500 ft/2300 m density altitude? Provide a sketch showing the recommended typical safety template for clearing an obstacle 10 m higher than the launch site, and showing the extended area affected if the aircraft requires additional time to accelerate before achieving a sustained rate of climb.

DATA ITEM DESCRIPTION	AW-001	Page	of
10. Preparation Instructions (continued)		3	4

10.4.5 What is the launch safety template when operating from a site in the vicinity of Wainwright, AB situated at 2215 ft/675 m altitude with a local temperature of 30°C? Provide a sketch showing the recommended typical safety template for clearing an obstacle 10 m higher than the launch site, and showing the extended area affected if the aircraft requires additional time to accelerate before achieving a sustained rate of climb?

10.4.6 What warnings are provided to the operator when the aircraft approaches assigned aerospace boundaries? (I.E.: If the aircraft reaches a restricted airspace boundary or elevation boundary.)

10.4.7 What is the lost link protocol? Can an absolute ceiling be programmed beyond which the aircraft will not climb while attempting to re-establish the data link? Will the aircraft retrace its route or does it attempt the shortest path to a pre-determined location? What other procedures are used to re-establish the data link? What ultimately occurs if the data link is not re-established?

10.4.8 What is the anticipated loss of data link event rate when operating at ranges of 100 km when there are no hills or structures obstructing the Line of Sight? What is the anticipated data link loss rate when operating at 150 km?

10.4.9 What is the probability that an aircraft will depart from assigned aerospace due to navigation or control system failures?

10.4.10 What options are available to the operator when the aircraft loses navigational position awareness because of a loss of or a weak GPS signal?

10.4.11 Typically what percentage of flights will end with the aircraft failing to return to the pre-planned recovery site due to technical failures such as propulsion unit failures, loss of positoning/navigation data, aircraft component failures, etc?

10.4.12 What is the failure rate for propulsion units?

10.4.13 What warnings are provided in the event of a propulsion unit problem or failure?

10.4.14 Describe the recovery process. (What is the recovery sequence of events?)

10.4.15 What is the “missed approach” procedure when an aircraft approach is not within the optimal landing envelope? Is a wave-off under such circumstances automatic, or is operator intervention required?

10.4.16 What is the procedure carried out by the aircraft in the event the battery becomes discharged below system minimum operating requirements?

10.4.17 What is the anticipated attrition rate due to damages incurred while landing for operations in a hostile environment where off-site recovery is often not practical?

10.4.18 What is the probability of an aircraft executing an uncommanded recovery? (I.E.: An automated landing is conducted off-site during a flight.)

DATA ITEM DESCRIPTION	AW-001	Page	of
10. Preparation Instructions (continued)		4	4

10.4.19 What is the probability that an aircraft can be launched with components not properly installed, and that the components would subsequently detach from the aircraft, resulting in loss of control of the aircraft?

10.4.20 What system parameters are automatically tested during pre-flight checks?

10.4.21 What system parameters are automatically monitored during flight? (Sample parameters):

Avionics cold	Avionics hot
Air temperature above limit	Air temperature near freezing
Air temperature below limit	Aircraft reporting telemetry uplink failure
Airspeed fast	Airspeed slow
Barometric altitude higher than GPS alt	Barometric altitude lower than GPS alt
Above mission altitude limit	Above commanded altitude
Below commanded altitude	Below min mission altitude
Current draw high	Current draw low
Pilot's Console uplink timeout	Electrical voltage high
Electrical voltage low	Battery discharging
GPS error	GPS failure
RPM high	RPM low
Caution: Terrain.	

10.4.22 Are checklists for dealing with operating problems or equipment failures built into the system controls or provided on separate checklist documents? What checklists (if any) are online during operations?

10.4.23 How does Canada report systematic problems and specific incidents to the Contractor? Does the Contractor maintain a database of failure events, analyse events, and provide feedback to operators on reducing or preventing similar future failures/events?

DATA ITEM DESCRIPTION					
1. Title		2. Identification Number	Page #		
System Safety Assessment (SSA) & Functional Hazard Assessment (FHA)		AW-002	1	of	1
3. Description / Purpose					
The SSA & FHA are beneficial documents to the SUAS Technical Airworthiness Clearance process. If the SSA and the FHA, or equivalent documents which have been produced in the support of the SUAS design, already exist, the Contractor shall provide those documents.					
4. DID Approval Date	5. Office of Primary Interest(OPI)		6. GIDEP Applicable		
2013-05-24	PM FUAS				
7. Application / Interrelationship		8. Originator	9. Applicable Forms		
SUAS-A: CDRL AW002, SOW Para 5.4.3.1 SUAS-S: CDRL AW002, SOW Para 5.1.1		TA			
10. Preparation Instructions					
10.1 Format: Contractor format. 10.2 References: SAE ARP 4761					

DATA ITEM DESCRIPTION		
1. Title	2. Identification Number	Page #
SUAS Flight Manual	AW-003	1 of 2

3. Description / Purpose

The Flight Manual (Operator Manual) is submitted in support of the TAA SUAS Safety Case. The Flight Manual contains the information that is necessary for safe operation as related to design, operating or handling characteristics. It contains the Technical Airworthiness Data (TAWD), the operating limitations, the operating procedures, the performance and the loading information. Approval of the Flight Manual is a prerequisite to Technical Airworthiness Clearance of the SUAS.

4. DID Approval Date	5. Office of Primary Interest(OPI)	6. GIDEP Applicable
2013-05-24	PM FUAS	

7. Application / Interrelationship	8. Originator	9. Applicable Forms
SUAS-A: CDRL AW003, SOW Para 5.4.4.1, 7.17.2.a SUAS-S: CDRL AW003, SOW Para 5.1.1	TA	

10. Preparation Instructions

10.1 Format: The SUAS Flight Manual shall be prepared in the Contractor format .

10.2 References:

a. TAM Part 2, Chapter 7

b. TAM paragraph 2.1.2 R5 Advisory Note 2

10.3 Content:

10.3.1 The Flight Manual must reflect the actual SUAS capabilities.

10.3.2 The Flight Manual must contain data and procedures sufficient to allow a trained crew to safely operate the SUAS.

10.3.3 The Flight Manual must:

a. properly identify, cross reference and present the system of units used, to prevent any misunderstanding;

b. provide a description of how TAWD is identified;

c. include a Table of Contents and a list of effective pages; and

d. display the page number, the revision number and/or change date and number marked on each page.

10.3.4 The Flight Manual must comply with the applicable requirements of TAM Part 2, Chapter 7, Annex A.

10.3.5 The Flight Manual must include an appendix containing a Configuration Deviation List (CDL) that is compliant with TAM paragraph 2.1.2 R5 Advisory Note 2.

DATA ITEM DESCRIPTION	AW-003	Page	of
10. Preparation Instructions (continued)		2	2

10.4 The Data shall include complete documentation, in English, regarding the SUAS operation as follows:

a. Aircraft and SUAS Control Station (UCS) performance characteristics and system description. This shall describe the performance to be expected from the aircraft (operating ranges, service ceiling, airspeeds, endurance, etc.) and descriptions of the components associated with the aircraft and ground support equipment (GSE). Some examples of these components are the airframe, propulsion system, electrical system, flight control system, avionics, data links and communications, navigation systems, payload, autopilot, mission planning tools, imagery processing system, landing system, etc.

b. Limitations of all system components (aircraft, UCS, Command and Control Links, etc) that should detail such information as altitude restrictions, weather limitations/restrictions, launch and recovery, environmental limitations and Electro-Magnetic Interference (EMI) restrictions.

c. Critical and non-critical emergency procedures should be clearly detailed so as to be readily accessible for immediate use. These should describe the immediate actions to be taken and remedial procedures to be followed in the event of failures in various aircraft systems. In addition to detailing regular aircraft systems emergency procedures (engine failures, electrical problems etc) a detailed description of loss of command and control (C2) link procedures and rules of safety must be provided. This shall describe what actions the crew must take to regain/improve connectivity and what procedures the aircraft will follow on the determination of a loss of C2 link with the UCS.

d. Operating procedures for the SUAS airborne and ground systems. This shall include all normal procedures for the entire range of SUAV operations to include any initial setup/checkout of the system components, and all pre-flight/in-flight/post flight operating procedures and checks. Additionally, any warnings and cautions regarding the systems operation should be provided and clearly depicted.

e. The condition and minimum equipment for the system to maintain conformity to meet specification and flight authorization shall be included. This is sometimes referred to as a Minimum Equipment List.

DATA ITEM DESCRIPTION					
1. Title		2. Identification Number		Page #	
SUAS Special Type Certificate Data Sheet (SS/TCDS)		AW-004		1 of 2	
3. Description / Purpose					
The TCDS highlights the airworthiness features of the SUAS and is an integral part of the SUAS Special Type Certificate. Approval of the SS/TCDS is a prerequisite to Technical Airworthiness Clearance of the SUAS.					
4. DID Approval Date	5. Office of Primary Interest(OPI)			6. GIDEP Applicable	
2013-05-24	PM FUAS				
7 Application / Interrelationship			8. Originator	9. Applicable Forms	
SUAS-A: CDRL AW004, SOW Para 5.4.5.1 SUAS-S: CDRL AW004, SOW Para 5.1.1			TA		

10. Preparation Instructions

10.1 Format: The TCDS shall be prepared in the Contractor format .

10.2 References:

a. TAM paragraph 2.1.2S8

10.3 Content:

10.3.1 The SS/TCDS must contain, as a minimum, the following information, with reference to supporting documentation:

a. model and type designation;

b. engine model and type;

c. propeller model and type;

d. serial numbers eligible;

e. approved configurations (including software loads)

f. SOI reference;

g. Design information, including:

(1) applicable airworthiness standards;

(2) equivalent safety items; and

(3) Special conditions.

h. design operating limitations, including:

(1) fuel (military and civilian specification);

(2) oil (military and civilian specification);

(3) airspeed limits;

DATA ITEM DESCRIPTION	AW-004	Page	of
10. Preparation Instructions (continued)		2	2

(4) maximum weights (taxi, maximum take-off weight (MTOW), landing, zero fuel);

(5) centre of gravity limits, datum and levelling means;

(6) minimum crew;

(7) fuel capacity;

(8) maximum operating altitude;

(9) outside air temperature limits;

(10) placards.

i. airworthiness limitations, including:

(1) life-limited components;

(2) maintenance certification requirements; and

(3) structural integrity/damage tolerance inspections.

j. approved publications:

(1) Instructions for Continued Airworthiness (ICA);

(2) flight manual or operating instructions;

DATA ITEM DESCRIPTION					
1. Title		2. Identification Number		Page #	
SUAS Established Safety Record		AW-005		1 of 1	
3. Description / Purpose					
The Established Safety Record is defined by the number of technical cause "uncontrolled flight" event per flight hour over a set period of time. The review of in-service data will provide the TAA staff an appreciation of the actual operational risks based on real-world operating data in addition to basic design data. The in-service data will be an important element of the Safety Case.					
4. DID Approval Date	5. Office of Primary Interest(OPI)			6. GIDEP Applicable	
2013-05-24	PM FUAS				
7. Application / Interrelationship			8. Originator	9. Applicable Forms	
SUAS-A: CDRL AW005, SOW Para 5.4.6.1 SUAS-S: CDRL AW005, SOW Para 5.1.1			TA		

10. Preparation Instructions

10.1 Format: The document shall be prepared in the Contractor format.

10.2 References:

a. A-GA-135-001/AA-001

10.3 Content:

10.3.1 The Contractor is required to demonstrate the safety record for the SUAS proposed to meet contractual requirements. This safety record will be defined by the number of technical cause "uncontrolled flight" event per flight hour over a set period of time. For this purpose, the term "uncontrolled flight" is the loss of UAV control and/or manoeuvrability resulting in flight outside of pre-planned or contingency flight profiles/areas and/or uncontrolled crash due to one or a combination of failure conditions.

10.3.2 The Contractor is responsible for providing DND with the data and sources of information, which substantiate the claimed Safety Record of its proposed fleet. Data must be from systems used in a configuration and flight profiles that are representative of the contractual requirements and covers a two (2) year period ending at Contract Award (CA).

10.3.3 In addition to the quantitative data on operational in-service experience, the Contractor must also provide the TAA with the underlying causes and any mitigation subsequently applied to address them.

10.3.4 Ideally, the in-service data will also demonstrate how the system has evolved to reduce the failure rate as design maturity has been acquired. Of particular interest are failures (or crashes or loss control) associated with the engine; flight controls (i.e. servos); GPS failures requiring reversion to dead reckoning; GCS failures (i.e. software crash).

DATA ITEM DESCRIPTION					
1. Title		2. Identification #	Page #		
SUAV Identification Markings Drawings		AW-006	1	of	2
3. Description / Purpose					
SUAV Identification Markings drawings establish how the Contractor intends to meet the TAM identification markings` requirement for DND aircraft and UAVs. Approval of the SUAV Identification Markings drawings is a prerequisite to Technical Airworthiness Clearance of the SUAS.					
4. DID Approval Date	5. Office of Primary Interest (OPI)		6. GIDEP Applicable		
2013-05-24	PM FUAS				
7. Application / Interrelationship		8. Originator	9. Applicable Forms		
SUAS-A: CDRL AW006, SOW Para 5.5.3.1 SUAS-S: CDRL AW006, SOW Para 5.1.1		TA			

10. Preparation Instructions

10.1 Format:

10.1.1 The Aircraft Identification Markings Drawings must be prepared in the Contractor's format.

10.2 References:

10.2.1 TAM, Section 2.2.2.R4

10.3 Content:

10.3.1 The Aircraft Finish Scheme and Identification Markings Drawings must show the paint scheme and identification markings for the entire SUAV and for each different colour or marking on the SUAV.

10.3.2 The drawings must include, as a minimum, the following:

a. the colour by paint type and nomenclature;

b. the number of coats, the surface preparation, treatment and coatings application processes;

c. any special application instructions;

d. the incorporation of the all applicable servicing, maintenance, hazards, and emergency markings as specified at references;

e. the coating system and erosion protection for radome and antenna; and

f. where decals are to be used, and application instructions for the decals.

10.3.3 All documents, processes and specifications referenced on the drawings must be provided as part of the drawing package.

DATA ITEM DESCRIPTION	AW-006	Page	of
10. Preparation Instructions (continued)		2	2

10.3.4 Two (2) sets of coloured prints showing the side view, front view, top view and bottom view of the SUAV must be provided. The coloured prints must illustrate the exact location and sizing of the following prominent markings;

a. Canada Flag;

b. Canada Wordmark;

c. Canadian Forces Signature;

d. Roundels;

e. Last 3 digits of the aircraft registration numbers located on the nose and wings;

f. Full registration number of the aircraft located on the vertical stabilizer below the Canadian Flag;

g. Flash;

DATA ITEM DESCRIPTION					
1. Title		2. Identification #	Page #		
SUAV Certificate of Conformance (CoC)		AW-007	1	of	1
3. Description / Purpose					
A Certificate of Conformance is an airworthiness certification that a newly manufactured aeronautical product is in conformance with the applicable approved type design and is in condition for safe operation.					
4. DID Approval Date	5. Office of Primary Interest (OPI)		6. GIDEP Applicable		
2013-05-24	PM FUAS				
7. Application / Interrelationship		8. Originator	9. Applicable Forms		
SUAS-A: CDRL AW007, SOW Para 5.5.4.1 SUAS-S: CDRL AW007, SOW Para 5.1.1		TA			

10. Preparation Instructions

10.1 Format:

10.1.1 The Certificate of Conformance must be prepared in the Contractor's format.

10.2 References:

10.2.1 TAM paragraph 5.4.2S7

10.3 Content:

10.3.1 The Certificate of Conformance must include the following information:

a. positive identification of the item by type, class, style, grade, model, part number, description, nomenclature and/or serial number as applicable;

b. identification of the applicable approved type design;

c. the following certification or similarly worded statement:

"I certify that the aeronautical product described herein conforms to the specified approved type design and is in a condition for safe operations."

ADVISORY NOTE

The intent of the terms "similarly worded statement" is to provide flexibility for organisations that may prefer somewhat different wording and account for any error in wording which will not invalidate the release.

d. identification of both the approval authority and the organisation;

e. for each SUAS, a statement that the SUAV has been flight checked; and

f. for each SUAV engine, a statement that the engine has been subjected by the Contractor to a final operational check.

10.3.2 The Certificate of Conformance must be approved by a Contractor representative authorized by the Contractor

10.3.3

DATA ITEM DESCRIPTION			
1. Title	2. Identification #	Page #	
Airworthiness Management Plan (AMP)	AW-008	1 of 3	
3. Description / Purpose			
The Airworthiness Management Plan describes the contractor's engineering support, maintenance support, and logistic support concepts. DTAES staff will review the AMP and determine if it meets the industry best practices. Approval of the AMP is a prerequisite to Technical Airworthiness Clearance of the SUAS weapon system.			
4. DID Approval Date	5. Office of Primary Interest (OPI)	6. GIDEP Applicable	
2013-05-24	DTAES 4		
7. Application / Interrelationship	8. Originator	9. Applicable Forms	
SUAS-A: CDRL AW008, SOW Para 5.6.2.1 SUAS-S: CDRL AW008, SOW Para 5.2.2.1	TA		

10. Preparation Instructions

10.1 Format: The AMP shall be prepared in Contractor format.

10.2 Content: If the information is clearly described, the AMP may link to other publications or contract deliverables to satisfy each requirement.

10.3 Engineering Support: The AMP must describe the contractor's engineering support system including:

a. Configuration management system;

b. Engineering (design) change concept;

c. Technical and operational manual management;

d. Supplier management and customer parts support;

e. Technical problem support including:

(1) Technical queries;

(2) Non-standard repairs;

(3) Field Service Reps; and

(4) Maintenance program deviations.

f. Minimum requirements for internal engineering staff approving engineering data;

g. In-service monitoring of customer/supplier problems; and

h. Quality management system.

10.4 Maintenance Support: The AMP must describe the contractor's maintenance support system including:

DATA ITEM DESCRIPTION	AW-008	Page	of
10. Preparation Instructions (continued)		2	3

a. Training requirements for technicians (including DND first line technicians);

b. Qualification and authorization process;

c. Maintenance certification process;

d. UAV release to operations process

e. Maintenance record management;

f. Maintenance scheduling and control;

g. Parts control;

h. Access to special tools and test equipment;

i. Access to facilities suitable for the scope of work being performed;

j. Maintenance publication management; and

k. Quality management system.

10.5 Logistics Support Requirements: The AMP must describe the contractor's logistics support system including:

a. Receiving of parts;

b. Packaging and handling;

c. Storage;

d. Shelf life control;

e. Part documentation control;

f. Vendor selection and parts ordering; and

g. Quality management system.

10.6 The AMP must describe how the Airworthiness Manager will deliver the support required for DND to meet their Type Certificate Responsibilities that include:

a. Ensure the establishment and maintenance of data such as: operating instructions, maintenance manuals, drawings, parts catalogues; needed to support the UAV for the life of the project;

b. Ensure access to any data provided by the UAV OEM to the TAA in support of the Technical Airworthiness Clearance;

c. Monitor and report UAV in-service issues to the TAA;

d. Support the preparation of the Annual Airworthiness Report by providing in-service data to DND;

DATA ITEM DESCRIPTION	AW-008	Page	of
10. Preparation Instructions (continued)		3	3

e. Provide data to support the assessment of airworthiness risks identified during operational service in accordance with the DND Technical Airworthiness Risk Management process DG01.003;

f. Ensure that the configuration management of the UAV is established and maintained for the life of the project; and

g. Establish and maintain the arrangements with organizations providing the required engineering, logistic and maintenance support.

DATA ITEM DESCRIPTION			
1. Title	2. Identification Number	Page #	
Interface Control Documents (ICD)	SE-001	1 of 1	
3. Description / Purpose			
The ICD information is required to enable Canada to manage future payload integration tasks, and to conduct operations using alternative Ground Control Systems.			
4. DID Approval Date	5. Office of Primary Interest(OPI)		6. GIDEP Applicable
2013-05-24	PM FUAS		
7. Application / Interrelationship		8. Originator	9. Applicable Forms
SUAS-A: CDRL SE001, SOW Para 6.4.2, 6.4.3, 7.1.7.2.c SUAS-S: CDRL SE001, SOW Para		TA	

10. Preparation Instructions

10.1 Format. Contractor format is acceptable.

10.2 Content. The ICD will permit the CF a detailed understanding of the methods of connectivity. Specific areas of the system which shall be covered to an acceptable level of detail include the following:

a. Payload to aircraft interface;

b. Aircraft systems/assemblies interfaces;

c. Ground Control System assemblies interfaces; and

d. Any applicable test equipment interfaces.

Note: The ICD is considered to be a technical publication. As such the requirements of CDRL ILS007, DID ILS-007 are applicable.

DATA ITEM DESCRIPTION			
1. Title		2. Identification Number	Page #
Request for Deviations / Waivers		SE-002	1 of 1
3. Description / Purpose			
Deviations or Waivers shall be used to obtain a specific written authorization to depart from a particular performance or design requirement specified in the Contract.			
4. DID Approval Date	5. Office of Primary Interest(OPI)		6. GIDEP Applicable
2013-05-24	PM FUAS		
7. Application / Interrelationship		8. Originator	9. Applicable Forms
SUAS-A: CDRL SE002, SOW Para 6.5.1.1, 6.5.1.2 SUAS-S: CDRL SE002, SOW Para 6.4.4.1.1, 6.4.4.1.2		TA	DND 672 DND 675 DBD 678

10. Preparation Instructions

10.1 Format:

10.1.1 Requests for Waiver or Deviation data shall be submitted on a DND-675 form.

10.2 The Contractor shall not proceed with the production or implementation of non-compliant changes prior to receipt of properly authorized documentation from the Technical Authority AND Contract Authority.

DATA ITEM DESCRIPTION			
1. Title	2. Identification Number	Page #	
Configuration Management Plan	SE-003	1 of 1	
3. Description / Purpose			
The Configuration Management (CM) Plan for the system will allow the CF to maintain visibility on the configuration of the system while in service with the CF.			
4. DID Approval Date	5. Office of Primary Interest(OPI)		6. GIDEP Applicable
2013-05-24	PM FUAS		
7. Application / Interrelationship		8. Originator	9. Applicable Forms
SUAS-A: CDRL SE004, SOW Para 6.6.2, 6.6.3 SUAS-S: CDRL SE004, SOW Para 6.4.1		TA	

10. Preparation Instructions

10.1 Format:

10.1.1 The Configuration Management Plan (CMP) shall be prepared in Contractor format and in accordance with paragraph 5.2 of D-01-002-007/SG-001 DND Standard - Requirements For The Preparation Of Configuration Management Plans July 1994. Paragraph 5.2.6.1.5 shall refer to the contractor's choice and definition of computer software entities rather than CSCs and CSUs. However DOD-STD-2167 para 5.7 and MIL-STD-483 should be used as a guide.

10.2 CMP: The CM Plan will identify the system or systems used by the Contractor to maintain configuration of their equipment.

Note: It is acceptable to have a separate processes for software configuration provided that there are appropriate links between the software and hardware CM processes to ensure proper configuration control is exercised at all times.

10.3 Configuration Management: The plan shall include the contractor's configuration management policy and the methods that the Contractor will use to implement the following:

a. Configuration identification, including functional and physical characteristics of configuration items;

b. Configuration control;

c. Configuration status accounting;

d. Configuration audits; and

e. Technical Reviews.

10.4 Changes: The plan will identify the processes to be used for controlling and implementing changes, and recording and reporting change implementation.

10.5 Operating System Archive: To enable Canada to conduct system software re-installations the Data shall provide Canada with two (2) copies of the operating system and any required individual component software for archive purposes. As any applicable updates are introduced to the system the Data shall include two copies of the updated software for Canada to archive in the system software library.

DATA ITEM DESCRIPTION			
1. Title		2. Identification Number	Page #
Application for Frequency Supportability		SE-004	1 of 1
3. Description / Purpose			
The Data is to include all necessary system RF spectrum requirements to operate the system. Required DND forms are to be completed and submitted.			
4. DID Approval Date	5. Office of Primary Interest(OPI)		6. GIDEP Applicable
2013-05-24	PM FUAS		
7. Application / Interrelationship		8. Originator	9. Applicable Forms
SUAS-A: CDRL SE004, SOW Para 6.8.1 SUAS-S: CDRL SE004, SOW Para 4.3.1		TA	DND552

10. Preparation Instructions

10.1 Format: As per the DND 552 form or the US DoD equivalent

10.2 The Data is to indicate all necessary system RF spectrum requirements required for system operation. Refer to: B-GT-D35-001/AG-000, The Canadian Forces Publication on Management of The Radio Spectrum, for specific instructions. The instructions for the completion of form DND 552 are found there as Appendix 2 to annex B to B-GT-D35-001/AG-000. Form DND 552 is available in Appendix 1 to annex B to B-GT-D35-001/AG-000.

10.3 Where there are options for operating the system with various RF combinations, each set of spectrum requirements for the transmitter, receiver and antenna equipment characteristics are to be individually identified. This description shall include as a minimum; frequency bands, number of channels required, approximate transmitting power, and approximate bandwidth requirements. The use of matrices, tables and diagrams to facilitate system operation understanding is encouraged.

10.4 For each RF equipment in the proposal, the Data shall include a completed DND 552 Forms “Application for Frequency Supportability” to the TA. The values entered on the DND 552 forms shall be measured values.

10.5 An unofficial reproduction is available with the RFP through Public Works and Government Services Canada as Reference Document Form DND 552.

DATA ITEM DESCRIPTION				
1. Title		2. Identification Number	Page #	
Acceptance Test Plan and Report		SE-005	1 of 1	
3. Description / Purpose				
The Test Procedures shall include a description of the overall test plan, test objectives, test requirements, resource requirements and test procedures for accomplishing the respective test.				
4. DID Approval Date	5. Office of Primary Interest(OPI)		6. GIDEP Applicable	
2013-05-24	PM FUAS			
7. Application / Interrelationship		8. Originator	9. Applicable Forms	
SUAS-A: CDRL SE005, SOW Para 6.9.1 SUAS-S: CDRL SE005, SOW Para 1.3.2, 6.6.2		TA		

10. Preparation Instructions

10.1 Format: The acceptance test plan/report may be in Contractor format.

10.2 Content: At the minimum the acceptance test plan/report shall contain the following:

a. Test procedures, including test conditions and step-by-step procedures to obtain the data necessary to determine conformance with the requirement; and

b. Data sheets/cards shall be used for recording data of each test. Provisions for recording the date of the test, signature of tester and signature of DND POC witness (if required) shall be included.

10.3 Test Plan General. The plan shall as a minimum:

a. Demonstrate compliance of integration and proper operation of system software and equipment in accordance with the terms and conditions of the contract; and

b. Cover procedures, terms and conditions governing the planning, preparation, and completion of acceptance tests covering the system submitted for acceptance.

10.4 Test Report General. The Data shall include a draft of the report prepared while conducting the acceptance testing and all parties shall review the report upon completion of testing. The reports must include as a minimum:

a. System to be accepted (including configuration and waivers);

b. Test name and scope relating to the test plan; and

c. Test summary including success or failure.

DATA ITEM DESCRIPTION				
1. Title		2. Identification Number	Page #	
Integrated Logistics Support (ILS) Plan		ILS-001	1 of 2	
3. Description / Purpose				
The ILS Plan shall describe the support concept that the Contractor proposes. It shall identify all ILS elements.				
4. DID Approval Date	5. Office of Primary Interest(OPI)		6. GIDEP Applicable	
2013-05-24	PM FUAS			
7. Application / Interrelationship		8. Originator	9. Applicable Forms	
SUAS-A: CDRL ILS001, SOW Para 7.2.1 SUAS-S: CDRL ILS001, SOW Para 1.3.2, 4.4.1, 7.1.1.1		TA		

10. Preparation Instructions

10.1 Format: Contractor format is acceptable.

10.2 Content: The ILS plan shall define the activities, tasks and procedures necessary for the introduction into service of new equipment into the Canadian Forces (CF). The plan should give an overview of all ILS elements and further identification as necessary of all support activities as it relates to the life cycle support of the equipment. For material not being acquired by the CF under the provision of services tasks, ILS concerns are essentially focused on, but not necessarily limited to, system training, Technical Investigation and Engineering Services tasks, Additional Work Requests, and the necessary support for those items which the CF will be in possession of and performing maintenance on during the contract.

Note: The plan should give an overview of all relevant ILS elements and further identification as necessary of all support activities as they relate to the required support in the context of the contract. The following should not be considered as an exclusive list but rather the minimum from which the Data shall use to describe the Contractor support concepts including Logistics Support Analysis, Support Equipment, and Supply Support Program.

10.3 Logistics Support Analysis: Logistics Support Analysis (LSA) encompasses the engineering and analytical functions necessary to ensure maintenance and supportability are defined and source data is produced for the development of other new or upgraded payloads. Full support shall be required for any engineering task associated with Canada introducing additional payloads during the contract.

10.4 Support Equipment (SE): Support Equipment, (SE) includes General Purpose Equipment, Special Purpose Equipment, and all other equipment and special and common tools used to service, store, inspect, repair, overhaul, assemble, disassemble, test and otherwise maintain the system. Further amplification of STTE is provided under DID ILS-0007.

DATA ITEM DESCRIPTION	ILS-001	Page	of
10. Preparation Instructions (continued)		2	2

10.5 Supply Support program: Supply Support program fundamental objective is to ensure adequate spares, repair parts, and consumables are available to the Canadian Forces to support the system. Planning of spares, repair parts, training equipment and SE are based on inputs from both the LSA and Provisioning functions. Factors used to determine sparing should include operational factors, such as usage, environmental harshness, and geographic isolation. Additionally, maintenance factors including reliability and maintainability data, such as Mean Time Between Failure (MTBF) and Mean Time To Repair (MTTR) and Maintenance Induced Failure should also be considered. The resulting deliverable of this activity is the Recommended Spare Parts List further amplified under DID ILS-0003. The Contractor shall be responsible for planning and providing adequate Supply Support for the maintenance and operation of all CF operated SUAS equipment.

DATA ITEM DESCRIPTION			
1. Title	2. Identification Number	Page #	
Provisioning Documentation	ILS-002	1 of 1	
3. Description / Purpose			
Provisioning Documentation is all documentation required by the CF to catalogue the equipment into the CF Supply System.			
4. DID Approval Date	5. Office of Primary Interest(OPI)	6. GIDEP Applicable	
2013-05-24	PM FUAS		
7. Application / Interrelationship	8. Originator	9. Applicable Forms	
SUAS-A: CDRL ILS002, SOW Para 7.3.1 SUAS-S: CDRL ILS002, SOW Para	TA		

10. Preparation Instructions

10.1 Format: Contractor format is acceptable, but the information shall be fully consistent with the content of the approved Maintenance Plan.

10.2 Provisioning Documentation: The data shall be in accordance with D-01-100-214/SF-000, Specification for Preparation of Provisioning Documentation for Canadian Forces Equipment, May 2002. Provisioning Documentation shall include but not be limited to the following, and shall include updated provisioning data included in the LSA as required:

a. Generation of a top-down breakdown of each configuration item in the Provisioning Parts Breakdown (PPB) including any existing NSNs;

b. Identification of any special requirements for packaging handling or storage of components, parts, sub-assembly, or assemblies;

c. Identification of any shelf life items;

d. Identification only of proprietary drawings and/or listing of all final part numbers, and/or all available spec sheets and/or final drawings from supplier Original Equipment Manufacturers (OEM);

e. The Data shall include a Support Equipment report detailing General and Special Tools and Test Equipment with the same requirements for SPTD and provisioning data fields as the RSPL;

f. The Data shall include a top-down breakdown (family tree), consistent with the approved maintenance plan;

g. The Data shall identify any special packaging, handling, or storage requirements associated with the system, components, or Support Equipment;

h. Identification and details of any shelf-life items;

i. Additional information not listed above which could be considered an amplification of the contractor's capabilities and which would provide additional value to the Canadian Forces, for example approved nomenclature, data plates, etc;

DATA ITEM DESCRIPTION			
1. Title	2. Identification Number	Page #	
Drawing Packages and Associated List	ILS-003	1 of 2	
3. Description / Purpose			
Engineering Drawings and Associated List shall define engineering design approaches. They are used to support design analyses, the development of prototype hardware, and life-cycle support.			
4. DID Approval Date	5. Office of Primary Interest(OPI)		6. GIDEP Applicable
2013-05-24	PM FUAS		
7. Application / Interrelationship		8. Originator	9. Applicable Forms
SUAS-A: CDRL ILS003, SOW Para 7.6.1.2, 7.6.2, 7.6.4, 7.6.5, 7.6.7 SUAS-S: CDRL ILS003, SOW Para 7.1.2.1.2, 7.1.2.4		TA	

10. Preparation Instructions

10.1 Engineering Drawings:

10.1.1 In general, delivery of applicable Drawings, Associated Lists and Reference Documents to Canada is required to the extent that all items requiring assembly and maintainability by the CF, including those items specifically designed or adapted for use in support of the CF ISR Service program, may be catalogued as per CF policy.

10.1.2 Where applicable, Level I Engineering Drawings, Associated Lists and Reference Documents shall be provided in accordance with the requirements and in the final form specified below. In most instances only Level I drawings should be required for pre-existing items.

10.1.3 For items developed on behalf of Canada, DND reserves the right to require level III engineering drawings, and to accept or reject Commercial Off-The-Shelf (COTS) drawings that fail to meet Canada's drawing standards. If the TA rejects a drawing, the Contractor shall change the drawings as required to ensure compliance with the CF specification and standard.

10.1.4 Where applicable, Level III Engineering Drawings, Associated Lists and Reference Documents shall be provided in accordance with the following requirements and in the final form specified below. In the event that the Contractor already has drawings equivalent to Level III, the Contractor may submit them to the technical authority for approval. DND reserves the right to accept or reject COTS drawings. If the technical authority rejects the contractor's drawings, then the Contractor shall change the drawings as required to ensure compliance with the specification and standard described below.

10.1.5 Where applicable Level III Engineering Drawings, Associated Lists and Reference Documents in compliance with the specifications below for new items developed in support of this program shall be delivered to Canada.

DATA ITEM DESCRIPTION	ILS-003	Page	of
10. Preparation Instructions (continued)		2	2

10.2 Specification:

10.2.1 New Drawings.

a. D-01-400-002/SF-000, Drawings, Engineering and Associated List (Canada).

b. D-01-400-001/SG000, Engineering Drawings Practices

c. D-01-400-002/SF-000 Levels of Engineering Drawings, Engineering and Associated Lists

d. DOD-D-1000B, Drawings, Engineering and Associated List (USA)

10.2.2 Existing Drawings: Existing drawings/ associated list shall be accepted if they meet the requirements of D-01-400-002/SF-000, para. 3.2 and DOD-D-1000B, para. 3.2.

10.2.3 Governing Standard: D-01-400-001/SG-000 dated 79-07-05, Engineering Drawing Practices.

10.2.4 Applicable Documents:

a. CAN/CSA-Z234.1-89, Canadian Metric Practices Guide

b. D-LM-008-022/SG-000, Standard for Packaging of Documentation

10.2.5 Drawing Levels:

a. Level I – Design Concept

b. Level II – Prototype / Limited Production

c. Level III – Production and Installation.

10.3 Reference Documents: Reference documents called up on the engineering drawings (excepting those, which are government, society and readily available industrial specifications or standards) shall be included as part of the engineering drawings and associated documents.

10.4 Contractor Drawings: Existing Contractor drawings shall be acceptable provided they meet the requirements of paragraph 3.2 of D-01-400-002/SF-000. In the event that Contractor drawings do not meet the specified requirements, the Contractor shall rework the drawings to ensure that the requirements are met.

10.5 Parts Lists: Parts lists can be integral or separate from the drawings.

DATA ITEM DESCRIPTION			
1. Title		2. Identification Number	Page #
Maintenance Plan		ILS-004	1 of 1
3. Description / Purpose			
To describe the requirements for the Maintenance Plan			
4. DID Approval Date	5. Office of Primary Interest(OPI)		6. GIDEP Applicable
2013-05-24	PM FUAS		
7. Application / Interrelationship		8. Originator	9. Applicable Forms
SUAS-A: CDRL ILS004, SOW Para 7.8.1 SUAS-S: CDRL ILS004, SOW Para 1.3.2, 4.5.1, 7.1.1.3		TA	

10. Preparation Instructions

10.1 Format: Government publication C-04-010-002/AM-000, Technical Management Policy and Procedures (Land) Permissive Repair Schedules (PRSs) and Standard Repair Times (SRTs), February 1989 should be used as a guide.

10.2 Content: As a minimum the Maintenance Plan shall include:

a. Description of system and components;

b. Maintance concept;

c. Permissive repair schedules (PRSs):

(1) Perodicity of inspections and repairs;

(2) Identify Lifed items installed;

(3) Establish damage tolerance and wear limits;

(4) Trouble shooting for the appropriate level;

(5) Qualification required for the task; and

(6) Testing required with the maintenace task.

d. Standard repair times (SRTs).

DATA ITEM DESCRIPTION			
1. Title	2. Identification Number	Page #	
Recommended Spare Parts List (RSPL)	ILS-005	1 of 1	
3. Description / Purpose			
The Data shall include a recommended spares list that identifies all consumables, Line Replaceable Units (LRU) and Shop Replaceable Units (SRU) to operate the system.			
4. DID Approval Date	5. Office of Primary Interest(OPI)		6. GIDEP Applicable
2013-05-24	PM FUAS		
7. Application / Interrelationship		8. Originator	9. Applicable Forms
SUAS-A: CDRL ILS005, SOW Para 7.9.1 SUAS-S: CDRL ILS005, SOW Para		TA	

10. Preparation Instructions

10.1 Format: Contractor format is acceptable, but the information shall be fully consistent with the content of the approved Maintenance Plan.

10.2 Recommended Spare Parts List (RSPL): The Data shall include the complete system inventory spares list in order to facilitate documentation into the CFSS as per NATO standardization. The data shall be in accordance with D-01-100-214/SF-000, Specification for Preparation of Provisioning Documentation for Canadian Forces Equipment. All data fields shall be considered mandatory. The RSPL shall be based on Mean Time Before Failure (MTBF) data arising from a combination of engineering and design data and on actual failure trends and data derived from operational trials and from support provided to operational flights.

10.3 As described in D-01-100-214/SF-000, an SPTD shall be submitted as an annex to the RSPL to fully describe and catalogue each item listed in the RSPL.

DATA ITEM DESCRIPTION			
1. Title		2. Identification Number	Page #
Publication Management Plan		ILS-006	1 of 2
3. Description / Purpose			
The Publication Management Plan for the system and related documents will allow the Canadian Forces to maintain up-to-date and accurate documentation related to the system while in service with the Canadian Forces.			
4. DID Approval Date	5. Office of Primary Interest(OPI)		6. GIDEP Applicable
2013-05-24	PM FUAS		
7. Application / Interrelationship		8. Originator	9. Applicable Forms
SUAS-A: CDRL ILS006, SOW Para 7.1.5.1 SUAS-S: CDRL ILS006, SOW Para 1.3.2, 4.6.1		TA	

10. Preparation Instructions

10.1 Format: Contractor format is acceptable.

10.2 Context: Publications provided to the CF shall include those necessary for the operation of the system, plus all necessary publications for the maintenance and support of those items operated and maintained by CF. All required Contractor publications shall be provided in electronic format and hard copy to, and maintained at, each GCS. Additional copies shall be provided to the Field Artillery School in accordance with any applicable negotiated task.

10.3 General: The Publication Management Plan is to provide a general description of means with which the Contractor intends to carry out this work. The Contractor is responsible for providing both electronic (if/when applicable) and paper publication management services for all changes, revisions, stock reprint, copy replications, supplements, leaflets, interim inspection instructions and technical bulletins related to the publications as provided in DID ILS-0005. This is to include Airworthiness Directives (Service Bulletins (SB), Alert Service Bulletins (ASB), and Service Information Letters.

10.4 Management services: This is the process of planning, organizing and coordinating the complete publication management activities related to revisions, changes, supplements, leaflets, interim instructions, advance change notices and technical bulletins, so that the end product of the process will be an up-to-date publication for all users identified.

10.5 French Language Publications: The Data shall assign Canada the right to have all required operational, maintenance and training publications translated to French for use within DND. In the event of any difference between the Contractor's English publications and Canada's French version, the Contractor's version shall be the master document. Canada reserves the right to negotiate a task for translation services through the Contractor or through other translation services.

DATA ITEM DESCRIPTION	ILS-006	Page	of
10. Preparation Instructions (continued)		2	2

10.6 The Data shall (as a minimum):

a. Following approval from the TA, perform a periodic review of the content of each publication to determine its currency, accuracy, and completeness with respect to the current equipment configuration;

b. Notify and provide the CF with amended or modified publications for both Canadian system and other users, even in the case where the changes do not affect the Canadian (DND) product as-delivered;

c. On the basis of 10.6.a. and 10.6.b., rewrite and produce the manuscript(s);

d. Maintain a master, a reproducible and a working copy of each publication and provide safe storage for them;

e. Ensure that all DND570s, CPCTs (publication change request) and PDRs (publication discrepancy reports) are processed within a maximum two (2) months from receipt at contractor's facilities to the date it is sent back for validation at TA's level;

f. Ensure that within a maximum of one (1) month from the date validated publications are received at the Contractor any required updates have been shipped as directed by the TA; and

g. When changes are urgent, the Contractor shall prepare and issue "white pages" with change bars ACN (Advance Change Notice) as instructed by the TA. Those ACNs must be delivered for validation to the TA within 10 working days following receipt by data fax/e mail from LCMMs. Prior to issue, the ACNs shall be subjected to engineering review and validation by the Contractor and TA approval of the technical content.

DATA ITEM DESCRIPTION		
1. Title	2. Identification Number	Page #
Technical Publications	ILS-007	1 of 2

3. Description / Purpose

The technical publications are references for Canadian Forces soldiers trained on the System to operate and, where applicable, maintain the System with the proper tools. Trained operators and technicians will recognize all elements of the publications from their training.

4. DID Approval Date	5. Office of Primary Interest(OPI)	6. GIDEP Applicable
2013-05-24	PM FUAS	

7. Application / Interrelationship	8. Originator	9. Applicable Forms
SUAS-A: CDRL-ILS007, SOW Para 7.17.2.b, 7.17.2.e SUAS-S: CDRL ILS007, SOW Para	TA	

10. Preparation Instructions

10.1 Format: (Technical Publications)

10.1.1 Contractor format is acceptable for existing publications at the time of bid submission. If the publications conform to applicable documentation requirements they shall be accepted as interim publications as per C-01-100-100/AG-005 Specification Acceptance Of Commercial And Foreign Government Publications as Adopted Publications, February 1996. The documents shall provide the information, text and images required for the basis of production of the CF bilingual publications.

10.1.2 If the Contractor does not have an existing technical publication(s) at the time of bid submission, in either or both English or French, the Data shall include new technical publication(s) in accordance with C-01-100-100/AG-005 Specification Acceptance Of Commercial And Foreign Government Publications as Adopted Publications, February 1996, and in English as per C-01-100-100/AG-005 Specification Acceptance Of Commercial And Foreign Government Publications as Adopted Publications, February 1996, and in English. The submission shall be fully consistent with the approved Maintenance Plan and Provisioning Document.

10.2 Content: (Technical Publications)

10.2.1 Any existing and/or new Contractor Technical publications shall contain as a minimum the following:

a. Introduction;

b. Equipment data;

c. Preparation for use and installation instructions;

d. General theory of operation;

e. Operating instructions;

DATA ITEM DESCRIPTION	ILS-007	Page	of
10. Preparation Instructions (continued)		2	2

f. Maintenance instructions (preventive and corrective);

g. Overhaul instructions;

h. Preparation for shipment instructions;

i. Storage instructions;

j. Illustrated Parts list;

k. Illustrations;

l. Cautionary advisories and explanatory notes; and

m. Conclusion.

10.2.2 Any new publication developed under the program shall be developed IAW C-01-100-100/AG-006, Writing, Format and Production of Technical Publications.

10.3 Format : (Interface Control Document)

10.3.1 Contractor format is acceptable. If the Contractor does not have an existing technical publication(s) at the time of bid submission the Data shall include new technical publication(s) in accordance with C-01-100-100/AG-005 Specification Acceptance Of Commercial And Foreign Government Publications as Adopted Publications, February 1996. The submission shall be fully consistent with the approved Maintenance Plan and Provisioning Documentation.

10.4 Content: (Interface Control Document) The ICD will permit the CF a detailed understanding of the methods of connectivity.

DATA ITEM DESCRIPTION				
1. Title		2. Identification Number	Page #	
Special Tools and Test Equipment (STTE) List		ILS-008	1 of 1	
3. Description / Purpose				
The STTE List shall be identified and provided as a sub-set of all Support Equipment (SE) required to support and or maintain the system while in service with the CF based on the Contractor provided Maintenance Plan from DID ILS 002				
4. DID Approval Date	5. Office of Primary Interest(OPI)		6. GIDEP Applicable	
2013-05-24	PM FUAS			
7. Application / Interrelationship		8. Originator	9. Applicable Forms	
SUAS-A: CDRL-ILS008, SOW Para 7.18.2 SUAS-S: CDRL ILS008, SOW Para		TA		
10. Preparation Instructions				
10.1 Format: Contractor format is acceptable. 10.2 Requirement: The Data shall include the complete list of Special Tools and Test Equipment including their provisioning data. The provisioning data is that described in DID ILS-0004.				

DATA ITEM DESCRIPTION					
1. Title		2. Identification Number		Page #	
Summary of Contractor Operator Qualifications & Authorizations,		ILS-009		1 of 1	
3. Description / Purpose					
Validation of training programme and currency standards for crews and instructors					
4. DID Approval Date	5. Office of Primary Interest(OPI)			6. GIDEP Applicable	
2013-05-24	PM FUAS				
7. Application / Interrelationship			8. Originator	9. Applicable Forms	
SUAS-A: CDRL-ILS009, SOW Para 7.19.9.1 SUAS-S: CDRL ILS009, SOW Para 4.1.6.1			TA		

10. Preparation Instructions

10.1 In order to validate the training programme and currency standards for crews and instructors, the Data is to include the following:

a. Documentation verifying the SUAS specific training the crews have received, their experience levels, qualifications and valid currency.

b. Documentation of any recognized standard to which SUAS GCS crews have been trained. Examples include but are not limited to private pilots licence, instrument ratings, qualified flight Instructors, etc.

c. Guidelines or regulations dictating what crews must accomplish to maintain their SUAS currency/qualification.

10.2 Where additional crews are to be trained, a full description of the training standards and experience, which the personnel will have at the time of deployment, is to be provided (as per paragraph "a" above)

DATA ITEM DESCRIPTION		
1. Title Training Plan (TMP)	2. Identification Number Trg-001	Page # 1 of 2
3. Description / Purpose To describe the Contractor's approach and detailed plan for meeting the requirements of the Training Program		
4. DID Approval Date 2013-05-24	5. Office of Primary Interest(OPI) PM FUAS	6. GIDEP Applicable
7. Application / Interrelationship SUAS-A: CDRL-T001, SOW Para 7.19.2.1 SUAS-S: CDRL T001, SOW Para 1.3.2, 4.7.1	8. Originator TA	9. Applicable Forms

10. Preparation Instructions

10.1 Format: Contractor format is acceptable.

10.2 General: The Training Plan (TMP) shall be prepared in English in the Contractor's format. The TMP shall describe how the Contractor will integrate the efforts of all parties involved in the Training Program and the activities required to meet the requirements of the ILS and/or any other Requirements Specification as it relates to any aspects of training.

10.3 Content Requirements: The Training Plan shall include, but not necessarily be limited to, the following:

10.3.1 Introduction: Prepare an introductory section detailing the Contractor's approach and general plan for meeting the ILS requirements of the System Specification as they apply to the Training Program. Provide a training overview that makes maximum use of diagrams to explain the various processes, strategies or tools to be used for training development and management.

10.3.2 Work Flow Diagram. Prepare a time phased process flow diagram supported by a narrative explanation describing the activities associated with each block of the Work Flow Diagram, indicating, on a time scale, the programmed work and milestones to be accomplished in providing training.

10.3.3 Media Selection Criteria. Define the Media Selection Criteria employed by the Contractor in determining the most efficient and effective method of instruction delivery.

10.3.4 Training Equipment. Identify and describes all the training equipment required to support the proposed training.

10.3.5 Data rights. Confirm that all rights to reproduce, modify, amend or otherwise change all training materials is conveyed to the Canadian Forces on delivery of these materials, and that the Data shall include as part of the course packages, all master drawings, photographic negatives, printing masters, electronic media and other original materials used to produce the elements of each course package, to facilitate any reproduction, modification, or amendment activities.

DATA ITEM DESCRIPTION	Trg-001	Page	of
10. Preparation Instructions (continued)		2	2

10.3.6 Training Schedules. Detail the schedule for training development and the conduct of the training by the Contractor. Include links to the roll-out schedule and development milestone as identified in all training related Project Plan tasks.

10.3.7 Preliminary Course/On-Job Training (OJT) Information. Prepare an annex, in a format acceptable to the PMO training authority, outlining preliminary course/on-job training information for each phase of training, including currency training (Course Description Sheets). Include in the annex the following information;

a. a brief description of the training content and training status (e.g., fully developed, requires minor development or requires major development);

b. proposed training location and a brief description of the training facilities to be used;

c. the type of media proposed for the presentation of course information (training methodology);

d. estimated duration of the training in training hours and days and a brief description of a typical training week, to include a train the trainer serial as well as normal operator qualification training;

e. recommended class size (minimum, maximum, optimum);

f. a list of the training equipments required to support the training;

g. a list of the training aids, learning aids and training equipment required to support the training;

h. a course syllabus;

i. course cost in term of student/ instructor ratio and facilities;

j. prerequisite training requirements; and

k. the language of the course, e.g., bilingual, French only or English only.

DATA ITEM DESCRIPTION		
1. Title Recommended Training Materials List (RTML)	2. Identification Number Trg-002	Page # 1 of 2

3. Description / Purpose

To present the results of a detailed analysis of all the training material requirements (facilities, equipment, tools, etc.) necessary to design, implement, evaluate, and maintain the training program.

4. DID Approval Date	5. Office of Primary Interest(OPI)	6. GIDEP Applicable
2013-05-24	PM FUAS	

7. Application / Interrelationship	8. Originator	9. Applicable Forms
SUAS-A: CDRL-T002, SOW Para 7.19.2.1, 7.19.4.2 SUAS-S: CDRL T002, SOW Para	TA	

10. Preparation Instructions

10.1 Format: Contractor format is acceptable.

10.2 Content Requirements: The RTML shall include, but not necessarily be limited to, the following:

a. Introduction: Provide a brief overview of the purpose and expected application of this report; and

b. Detailed Description of Resource Requirements for each Category of Training and Course: Before providing final detailed resource requirement descriptions PMO must agree on the category of training and course structure provided by the Contractor. Include such items as: training aids to be used by the instructors, handouts/learning aids to be retained by students, references, recommended publications, etc., in the detail resource requirements list.

10.3 Training Devices: Identify recommended training devices such as simulators, audio visual aids, computer based education system, mock ups, etc.

10.4 Justification of Recommendations: Provide justification for the recommended selection of training equipment and devices. Include the number of individual training tasks that can be supported by an item and the amount of training time that will be required to use the equipment. Describe and substantiate the training effectiveness of any simulators proposed and describe the training functions simulated.

10.5 Training Facilities: Identify appropriate recommended facilities for the most learning effective delivery of training including simulation, Computer Based Training (CBT), etc. Facilities requirements shall include size and arrangement of classroom and work space, environmental needs, lighting and electrical power, sound (noise) levels, computer laboratories, audio visual areas, student study areas, reference areas, break areas, toilets, instructor's offices, training aids production area, administrative offices.

DATA ITEM DESCRIPTION	Trg-002	Page	of
10. Preparation Instructions (continued)		2	2

10.6 Special Tools: List, by training module, all special tools not currently held in the DND supply system that are required to achieve a specific performance objective.

10.7 Training Consumables: Identify the estimated consumables, e.g., paper product, fuses, cables, etc., required for each course. The consumable list shall list the total quantity of each item required for one course. The Data shall clearly state and provide an unequivocal acknowledgement in the report (RTML) of his responsibility to provide all training consumables for all Pilot and Initial Cadre Training (ICT) courses, or to accept billing by Canada if courses are directed to be run at a DND School or other training facility.

10.8 Spare Parts: Identify, by training tasks, an estimate of spare parts required to support training activities. Base the estimated quantities of spare parts required on the premise that components used as training aids must be returned to a serviceable condition on termination of training or, if a component is to be used during training, it must be maintained in a serviceable and safe condition. Cross-reference the required spare parts to items on the Interim Spare Parts List, Long Lead Item List and Recommended Spare Part List. Categorise the parts as follows:

a. parts definitely requiring replacement on each course;

b. parts definitely requiring replacement at the end of training; and.

c. parts potentially requiring replacement.

DATA ITEM DESCRIPTION		
1. Title	2. Identification Number	Page #
Training Documentation	TRG-003	1 of 3

3. Description / Purpose

To present the results of a detailed analysis of the task list resulting from all identified data sources in a scalar format. This visual breakdown of the system level duties and tasks will help people visualise the whole challenge and focus on their areas of responsibilities.

4. DID Approval Date	5. Office of Primary Interest(OPI)	6. GIDEP Applicable
2013-05-24	PM FUAS	

7. Application / Interrelationship	8. Originator	9. Applicable Forms
SUAS-A: CDRL-T003, SOW Para 7.19.5.1 SUAS-S: CDRL T003, SOW Para	TA	

10. Preparation Instructions

10.1 Format: Contractor format is acceptable

10.2 General:

10.2.1 The Data shall include the documentation required:

a. to conduct the initial training of CF instructors;

b. to conduct the training of the first group of operators; and

c. to assist the CF with establishing the CF training program required to sustain the SUAS capability.

10.2.2 The documentation will generally fall into the following categories:

a. Individual Skills Prerequisite recommendations;

b. Training Task Analysis;

c. Performance Objectives;

d. Enabling Objectives, Performance Checks and Rating Criteria; and

e. Training Packages. Contractor Lesson Plans, Course Specifications and Training Packages used to conduct the initial training of CF personnel.

10.3 Individual Skill Prerequisites:

10.3.1 The Data shall identify the required and desired attributes for training candidates. Example: State medical limitations/requirements, level of computer skills, and any other applicable individual trait comments/recommendations.

10.4 Training Task Analysis:

DATA ITEM DESCRIPTION	Trg-003	Page	of
10. Preparation Instructions (continued)		2	3

10.4.1 All subsequent training development is based on the analysis and understanding of the training, operation and maintenance tasks. It is imperative that the task analysis data be acceptable to the CF training authority. The Data shall include a comprehensive listing of the different tasks required to deploy, operate, maintain and support all components (SUAV and ground components) of the complete system.

10.5 Performance Objectives

10.5.1 Performance objectives provide detailed guidance to the student. The data describe the tasks the graduate must be able to perform on the job, the conditions under which they must be performed and the minimum acceptable standard of performance.

10.5.2 Each task is linked to the performance objective(s) to which it refers. The performance objectives developed for the CF training program will be IAW Part of A-P9-050-000/PT-003. PO's will be developed and formatted IAW Annex F and G of A-P9-050-000/PT-003.

10.5.3 The Data shall include documentation detailing the Performance Objectives and associated instructional methodology for the Contractor's training program.

10.6 Enabling Objectives and Rating Criteria

10.6.1 Enabling Objectives and Rating Criteria shall be used to present all tests (written, practical or computer based) that are used to measure the degree to which trainees have achieved the prescribed performance objectives. Three types of tests may be required: pre-tests, progress tests (Enabling Objective Checks), and post-tests or criterion tests (Performance Checks). Tests within CF developed training programs will conform to the guidance provided in A-P9-050-000/PT-007.

a. Testing instrument. For CF training programs each testing instrument shall be identified by course title, performance objective(s) being tested, type of test (pre-test, progress test, or performance check), and time limit (if any). It shall contain instructions to the student and a space to record the student's name and score. Computer based tests shall be capable of being computer scored, printed in hard copy where appropriate, and provide for the generation of hard-copy scores;

b. Answer keys. For CF training programs correct answer keys shall be provided for all tests. Accurate checklists will be provided for all performance and enabling checks, and

c. Tests shall conform to the guidance provided in A-P9-050-000/PT-007.

10.6.2 The Data shall include copies of Enabling Objective and Rating Criteria documentation used in the Contractor's training and student evaluation program.

DATA ITEM DESCRIPTION	Trg-003	Page	of
10. Preparation Instructions (continued)		3	3

10.7 Training Packages:

10.7.1 The Training Packages shall contain all of the collected materials required by a training agency to conduct the applicable course. These materials include all documentation not identified elsewhere, lesson plans, projectables, handouts, training aids, job aids, forms, instructions, videotapes, computer software/courseware, etc. In addition, it includes all the administrative, managerial and logistic information.

10.7.2 Content And Format Requirements: The training materials may be prepared in the Contractor's format. All materials shall be identified with the applicable Course Title, Performance Objective Number, and Lesson Title. Lesson plans shall be presented in modules. (i.e. A single lesson plan shall not cover a full course. Each Lesson Plan, is a logical breakdown of a section of the course based on how the course subjects were designed).

ANNEX F

CANADIAN ARMY
SMALL UNMANNED AIRCRAFT SYSTEM
(SUAS)

REFERENCES

The references are divided into three sections as follows:

Section 1: Acronyms

Section 2: Definitions; and

Section 3: Reference Publications and Documents.

LIST OF ACRONYMS

1. The acronyms listed include Contract Annex B (System Performance Specification), Annex C (Statement of Work - Acquisition), Annex D (Statement of Work – In-Service Support), and Annex E (References).

12/7	twelve hours per day, seven day per week
24/7	24 hours per day, seven day per week
AAS	Accountable Advanced Spares
AC	Alternating Current
ACA	After Contract Award
ACN	Advanced Change Notice
ACP	Airworthiness Clearance Plan
AEDP	Allied Engineering Documentation Publication (Typically supporting documentation for STANAGs)
AES	Advanced Encryption Standard
AGL	Above Ground Level
AIS	Automatic Identification System
AMA	Allied Military Agency
AMSL	Above Mean Sea Level
ANNLY	Annually
ANSI	American National Standards Institute
ARC	Arc-second Raster Chart/Map
AS GEN	As Generated
AS REQ	As Required
ASB	Alert Service Bulletin
ASRP	ARC Standard Raster Product
ATP	Acceptance Test Plan
AV	Air Vehicle or Aerial Vehicle
AWR	Additional Work Request
BER	Beyond Economical Repair
BI-MO	Each 2 months
BI-WK	Each 2 weeks
BOC	Brought On Charge

ºC	degrees Celsius or degrees Centigrade
C2	Command and Control
CA	Contract Authority
CADRG	Compressed Arc-second Raster Chart/Map (ARC) Digitized Raster Graphic
CBRN	Chemical, Biological, Radiological and Nuclear
CBT	Computer Based Training
CDRL	Contract Data Requirements List
CEP	Circular Error Probable - In the military science of ballistics, circular error probability or circular error probable is a simple measure of a weapon system's precision. It is defined as the radius of a circle into which a missile, bomb, or projectile will land at least half the time
CF	Canadian Forces
CF 942	Identity and Condition Tag/Label
CF-RARM	Canadian Forces Risk Assessment and Risk Management Plan
CF-RMP	Canadian Forces Risk Management Plan
CFB	Canadian Forces Base
CFM	Contractor Furnished Material
CFB	Canadian Forces Base
CFSD	Canadian Forces Supply Depot
CFSS	Canadian Forces Supply System
CFTO	Canadian Forces Technical Order
CI	Configuration Item
CIB	Controlled Image Base (Map Format)
CIS	Contract Issue Spares
Cm, cm	centimetre
CM	Configuration Management
CMP	Configuration Management Plan
CMTC	Canadian Manoeuvre Training Centre (Wainwright, Denwood, AB)
CONOPS	Concept of Operations
COTS	Commercial Off-The-Shelf
CPCT	Contract Publication Change Transmittal
CPM	Critical Path Method
CRMP	Contractor Risk Management Plan
CRPA	Contractor Repair Part Account
CTC	Combat Training Centre Gagetown
CYF	Current fiscal Year Forecast

DACA	Days after Contract Award
DAILY	Daily
DC	Direct Current
DCG	Document Control Group
Det	Detachment
DFDEL	Deferred delivery
DFREQ	Deferred requisitioning
DID	Data Item Description
DIGEST	Digital Geographic Information Exchange Standard
DLBM	Director Logistics Business Management
DLMS	Digital Land Mass System
DMC	Demilitarization Code
DND	Department of National Defence
DND 570	Contract Publication Change Transmittal Form (CPCT)
DND 626	Contract Task Authorization Form
DoD	Department of Defence (USA)
DPA	Defence Production Act
DPM	Deputy Project Manager
DRMIS	Defence Resource Management Information System
DSCO	Director Supply Chain Operation
DTAES	Directorate of Technical Airworthiness & Engineering Support
DTED	Digital Terrain Elevation Data
DTM	Digital Terrain Model
DVD	Digital Video Disc or Digital Versatile Disc
ECCN	Export Control Classification Number
ECL	Export Control List
EDD	Estimated Delivery Date
EG601	Engineering Guideline 601.1. See Motion Imagery Standards Board: http://www.gwg.nga.mil/misb/docs/EG060101.pdf
EHS	Environmental Health and Safety
EIRP	Equivalent Isotropically Radiated Power
EMI	Electromagnetic Interference
EO	Electro-Optic
EOC	End of contract
EOM	End of month
EOQ	End of quarter
ESM	Electronic Support Measure

F	Fahrenheit
FAR	Federal Acquisition Regulation (USA)
FCA	Free Carrier, (see Incoterms 2010)
F	Fahrenheit
FAA	Federal Aviation Administration
FAR	Federal Acquisition Regulation (USA)
FIFO	first-in / first-out
Flight Hour	Time aircraft is in the air
FMS	Foreign Military Sales
FMV	Full Motion Video
FOC	Full Operational Capability
FOV	Field of View
FRU	Field Replaceable Unit(s)
FSR	Field Services Representative: A Contractor representative who provides on-site service and support
ft	Foot (Feet)
FUAS	Family of Unmanned Aircraft Systems
g	Gravity (acceleration of 9.8 m/s/s)
GCS	Ground Control Station or Ground Control System
GeoTIFF	Geographic Tagged Image File Format
GFI	Government Furnished Information
GFE	Government-Furnished Equipment
GFOS	Government Furnished Overhaul Spares
GHz	Gigahertz
GIDEP	Government/Industry Data Exchange Program
GMTOW	Gross Maximum Take-Off Weight
GPS	Global Positioning System
GSM	Government-Supplied Material
H.264/MPEG-4	MPEG-4 Advanced Video Coding Standard
HAZMAT	Hazardous Material
HFE	Heavy Fuel Engine
HPRs	High Priority Requirements
HQ	Headquarters
Hz	Hertz

IAW	In Accordance With
ICD	Interface Control Document
I.E.	Id Est (Latin), in example
IEEE	Institute of Electrical and Electronics Engineers
IEC	International Electrotechnical Commission
IED	Improvised Explosive Device
ILCC	Inbound Logistic Coordination Center
ILEA	Inbound Logistics Europe Area
ILS	Integrated Logistic Support
ILUK	Inbound Logistic United Kingdom
IM	Information Management
In	Inch, inches
IOC	Initial Operational Capability
IOR	Immediate Operational Requirement
IP	Ingress Protection (Typically protection from moisture, dust and contaminants entering equipment)
IR	Infra-red
IRB	Industrial Regional Benefit
ISO	International Organization for Standardization or International Standardization Organization
ISPM	International Standards for Phytosanitary Measures
ISR	Intelligence Surveillance and Reconnaissance
ISTAR	Intelligence, Surveillance, Target Acquisition and Reconnaissance
IT	Information Technology
ITAR	International Traffic in Arms Regulations (USA)
Kg / kg	Kilogram(s)
KLV	Key Length Value
Km	Kilometre
Km/h	Kilometres per hour
Kt, kts	Knot, knots or nautical miles per hour
KVA	Kilo Volt Amperes
LAN	Local Area Network
LAV III, LAV 3	Light Armoured Vehicle, generation III
lb, lbs	Pound(s)
LCIS Tech	Land Communications and Information Systems Technician
LCMM	Life Cycle Material Manager

LCSS	Land Command Support System
LDS	Local Data Set
LIFO	Last-In-First-Out
LOS	Line of Sight
LRF	Laser Range Finder
LRU	Line Replaceable Unit
LSA	Logistics Support Analysis
m	Meter
m/s	Meter/Second
MACA	Months After Contract Award
MCN	Material Change Notice(s)
MGCS	Mobile Ground Control Station
MGRS	Military Grid Reference System
MHz	Megahertz
MIL-HDBK 810G	Military Standard 810 G Handbook/ Guide
MIL-STD	Military Standard
MISB	Motion Imagery Standards Board
mm	millimetre
MND	Ministry of National Defence (Department of National Defence)
MNTHY	Monthly
MPEG	Moving Picture Experts Group (International Standards Organisation/ International Electro technical Commission)
MOB	Main Operating base
MPEG	Moving Picture Experts Group
Mph	Miles per hour
MRC	Maximum Repair Cost
MRP	Mission Risk Profile
MRP	Mobile Repair Party
MS	Microsoft
MSDS	Material Safety Data Sheet
MSVS	Medium Support Vehicle System
MTBF	Mean Time Before Failure, or Mean Time Between Failure
MTTR	Mean Time To Repair
NATO	North Atlantic Treaty Organisation
NDHQ	National Defence Headquarters
NDID	National Defence Index of Notification

NDQAR	National Defence Quality Assurance Representative National Defence Quality Assurance Region
NIIRS	National Image Interpretability Rating Scale
NITF	National Imagery Transmission Format
NSIF	NATO Secondary Imagery Format
NSILI	NATO Standard Imager Library Interface
NSN	NATO Stock Number(s)
NTSC	National Television System Committee
NVG	Night-vision Goggles
OA	Operational Airworthiness
OAA	Operational Airworthiness Authority
OAC	Operational Airworthiness Clearance
OAG	Office of the Auditor General
OEM	Original Equipment Manufacturer
OHSAS	Occupational Health and Safety Assessment Series 18001
OHSMS	Occupational Health and Safety Management System
OJT	On-Job Training
ONE/R	One Time with Revisions as necessary. This primarily applies to document deliverables.
Op	Operation
OPI	Office of Primary Interest
OTIME	One time
PA	Procurement Authority
PCP	Proof of Compliance Plan
PDP	Product Description Package
pdf	Portable Document Format
PDR	Publication Discrepancy Report
PHST	Packaging, Handling, Storage and Transportation
PM	Project Manager, Project Management
PMO	Project Management Office
PMP	Project Management Plan
PN	Part Number
PO	Performance Objective
PPB	Provisioning Parts Breakdown
PRM	Progress Review Meeting
PROP	Submitted with Contractors' proposals

PRR	Priority Repair Request
PRS	Permissive Repair Schedule
PWGSC	Public Works and Government Services Canada
QA	Quality Assurance
QRTLY	Quarterly
R/ASR	Revisions as required
R&O	Repair and Overhaul
RARM	Record of Airworthiness Risk Management
RARMP	Record of Airworthiness Risk Management Plan
RDD	Required Delivery Date
RF	Radio Frequency
RFP	Request for Proposal
RMA	Repairable Materiel Account
RMP	Risk Management Plan
RMR	Repairable Materiel Request
ROVER	Receive-Only Video Enhanced Receiver
RRCAS	Royal Regiment of Canadian Artillery School
RSA	Repair Shop Account
RSPL	Recommended Spare Parts List
RTML	Recommended Training Materials List
RVT	Remote Video Terminal
SA	Supply Arrangement
SAASM	Selective Availability/ Anti-Spoofing Module
SAR	Synthetic Aperture Radar
SB	Service Bulletin
SC	Stock Holding Code
SE	Special Equipment, Support Equipment
SE	System Engineering
SEMIA	Semi Annually
SEP	Spherical Error Probable
SGCS	Stationary Ground Control Station
SITS	Special Investigation & Technical Studies
SMPTE	Society of Motion Picture and Television Engineers
SNAPS	Selection Notice And Priority Summary
SNOM	Selection Notice Observation Message

SOI	Statement of Operating Intent
SOR	Statement of Requirement
SOW	Statement of Work
SPS	System Performance Specification
SPTD	Supplementary Provisioning Technical Documentation
SRT	Standard Repair Time
SRU	Shop Replaceable Unit(s)
SSC	System Safety Case
STANAG	Standardization Agreement
STTE	Special Tools and Test Equipment
SUAS	Small Unmanned Aerial System
SUAS-A	Small Unmanned Aerial System Acquisition (Contract)
SUAS-S	Small Unmanned Aerial System In-Service Support (Contract)
SUAV	Small Unmanned Aerial Vehicle
TA	Technical Authority
TAA	Technical Airworthiness Authority
TAC	Technical Airworthiness Clearance
TAM	Technical Airworthiness Manual
TAPV	Tactical Armoured Patrol Vehicle
TAT	Turn Around Time
TAWS	Terrain Awareness Warning System
TB	Treasury Board
TBD	To Be Defined
TIES	Technical Investigation and Engineering Services
TLAV	Tracked Light Armoured Vehicle (a variant of the M113 armoured Personnel Carrier)
TLE	Target Location Error
TP	Training Plan
Trg	Training
UAS	Unmanned Aircraft System
UAV	Unmanned Aerial Vehicle or Unmanned Air Vehicle
UCR	Unsatisfactory Condition Report
UCS	UAV Control System
UII	Unique Item Identifier
UK	United Kingdom (Great Britain)
UPS	Uninterruptible Power Supply

US, USA	United States of America
USB	Universal Serial Bus
USML	United States Munitions List
USRP	UTM/USP Standard Raster Product
UTM	Universal Transverse Mercator
VAC	Volts Alternating Current
VCS 4586	CDL Systems Vehicle Control System software suite
VDC	Volts Direct Current
VLOS	Visual Line-of-Sight
VSM	Vehicle Specific Module
VPF	Vector Product Format
WBS	Work Breakdown Structure
WGS84	World Geodetic System 1984
WIP	Work In Progress
WKLY	Weekly
WSM	Weapon System Manager

DEFINITIONS

Availability	To be “Available” the AV and any associated launch and recovery equipment must be fully functional at the scheduled launch time. For the System to be deemed available the AV must remain in flight with the payload functioning IAW the specification for the scheduled duration of the mission.
CEP	Circular Error Probable - In the military science of ballistics, circular error probability or circular error probable is a simple measure of a weapon system's precision. It is defined as the radius of a circle into which a missile, bomb, or projectile will land at least half the time
Currency	Operators shall not conduct independent operations unless they are currently certified as qualified for system operation. If their currency has lapsed they must be re-qualified in accordance with the appropriate requirements. Currency standards for any aerospace system shall be determined by the airworthiness authority before a flight permit is issued.
FSR	Field Services Representative: A Contractor representative who provides on-site service and support
Handover	The in-flight transfer of AV control between CF detachments
Level 1	Unit/Organizational level maintenance: Operator maintenance and technical maintenance tasks of limited duration within the operator unit. Repair and return to user
Level 2	Direct Support from an external maintenance organization: Typically more involved, longer duration tasks. Mostly repair and return to user, but items may instead be returned to the supply system.
MIL-STD 810	The MIL-STD-810 series of standards are issued by the United States Army's Developmental Test Command, to specify various environmental tests to prove that equipment qualified to the standard will survive in the field. The current revision is revision G, issued October 31, 2008.
Mission	For the ISR service a mission is a requirement or a specific set of tasks to be accomplished in support of a specific goal. A mission is assigned via an ATO, typically specifying the mission start time, planned duration, region of operations, etc. A mission may be passed via planning documentation or orders prior to the start of the flight, or as a re-tasking of the ISR assets as priorities arise during an ongoing mission
MPEG	MPEG-2 is the international standard organization ISO/IEC 13818 specification for the commonly used digital video format for terrestrial cable and direct broadcast satellite TV systems, DVD players.

	MPEG-4 has more efficient encoding, and in some instances includes implementations of higher definition video such as "Blue-Ray".
NATO F-34	NATO equivalent of commercial JP-8 fuel
NATO F-37	- NATO F-34 + 256 ppm (parts per million) or 0.0256% of +100 additive = NATO F-37. - The +100 improves the thermal stability of F-34/JP-8 fuel by 100°F, from 325°F (163°C) to 425°F (218°C).
No Fly Zone	Areas where the operation of the UAV system is prohibited (at the time of the tasking)
On Station	At the intended target area. UAS shall be able to provide scheduled continuous on station surveillance for each daily mission period out to the specified contracted maximum data link range, 95% of the time and performing to 100% of the level of capability of the bidders proposal.
Operational Altitude	The altitude Above Ground Level that provides the best compromise between mandatory performance requirements. I.E.: Low enough to meet imagery requirements, but high enough to meet visibility and audibility requirements necessary for the conduct of covert surveillance tasks.
Operator Currency / Instructor Currency	Operators shall not conduct independent operations unless they are currently certified as qualified for system operation. If their currency has lapsed they must be re-qualified in accordance with the appropriate requirements. Currency standards for any aerospace system shall be determined by the airworthiness authority before a flight permit is issued.
RASTER	bitmap image composed of pixels
Reliability	“Reliability” requires that the AV and any associated launch and recovery equipment continues to function IAW the specification for the scheduled duration of the flight.
Serviceability	100% successful flight: Defined by 100% serviceability of all air and ground components of the UAV system required and used for the scheduled duration of the scheduled mission. The system may be deemed serviceable despite degradation of items which did not prevent successful completion of the mission.
Shall	Mandatory requirements as identified by “shall” indicate criteria for which the System or the Contractor is deemed to be non-compliant if it fails to perform at a level which is equivalent to or better than the minimum performance stipulated in the applicable section of the SPS or SOW
Should	A rated criterion describes a performance requirement where performance better than the stated mandatory level is deemed to enhance the operational value of the System.
Sortie	A single flight from launch to recovery

STANAG 4370	NATO Environmental Testing
STANAG 4545	NATO Secondary Imagery Format
STANAG 4586	Standard Interfaces of UAV Control System (UCS) for NATO UAV Interoperability. The aim of this agreement is to promote interoperability of present and future UAV systems in a NATO Combined/Joint Service Environment.
STANAG 4609	NATO Digital Motion Imagery Standard
STANAG 7074	Digital Geographic Information Exchange Standard (DIGEST)
STANAG 7085	NATO Wideband ISR Data Link Standard

PUBLICATIONS AND DOCUMENTS

1. Applicability.

1.1 The following documents form part of the Acquisition and/or In-Service Support SOW to the extent specified herein, and are supportive of the applicable SOW when referenced in section 3.0 and beyond of the SOW. All other document references in this annex are to be considered supplemental information only.

Reference Number	Reference Title	Ref Date	Source Comments
A-AD-100-100/AG-000	National Defence Publishing Policy and Administration Procedures, Annex F,	1991-10-15	GFI
A-GA-005-000-AG-001	Department Of National Defence/ Canadian Forces Airworthiness Program	2010-02-01	GFI
A-GG-040-004-AG-001	General Safety Program - Hazardous Materials Safety And Management Manual	2005-09-10	GFI
A-LM-184-001/JS-001	Special Instructions for Repair and Overhaul Contractors	2010-08-25	GFI
A-LM-505-702/JS-001	Materiel Management Instruction (MMI 1702) – Unique Identification And Standardized Marking Of Materiel	2012-06-01	GFI
A-P9-050-000/PT-003	Canadian Forces Individual Training and Education System Analysis of Instructional Requirements Volume 3	2003-06-01	GFI
A-P9-050-000/PT-004	Manual of Individual Training and Education Vol 4 - Design of Instructional Programs	1999-11-05	GFI
A-P9-050-000/PT-005	Manual of Individual Training and Education Vol 4 - Development of Instructional Programs	2001-04	GFI
A-P9-050-000/PT-007	Manual of Individual Training and Education Vol-7 Evaluation of Learners	1998-09-21	GFI

Reference Number	Reference Title	Ref Date	Source Comments
ANSI Z136.1-2007	Laser Safety Standards, the American National Standard for safe use of Lasers		http://www.ansi.org/
ANSI Z136.6-2005	Safe Use Of Lasers Outdoors		
B-GT-D35-001/AG-000	Management of The Radio Frequency Spectrum	2006-07-10	GFI
C-01-100-100/AG-005	Acceptance of Commercial and Foreign Government Publications as Adopted Publications	1996-02-29	GFI
C-01-100-100/AG-006	Writing, Format and Production of Technical Publications	1996-03-01	GFI
C-02-005-009/AM-000	Materiel Management Policy Inspection And Conditioning Of Materiel Returned To And Held In Supply System	2000-10-31	GFI
C-02-040-002-TS-001	Laser Safety	2001-10-11	GFI
C-05-005-001/AG-001	Technical Airworthiness Manual (TAM), Change 6	2012-06-22	GFI
C-55-040-001/TS-001	Safety Precautions And Incident Prevention Instructions Radio Frequency Safety Program	2001-05-30	GFI
	Canadian Transportation of Dangerous Goods Act	1992	http://www.tc.gc.ca/eng/acts-regulations/acts-1992c34.htm
	Canadian Radio-communication Act	(R.S., 1985, c. R-2)	http://laws-lois.justice.gc.ca/eng/acts/R-2/index.html
	Canadian Radio-communication Regulations (SOR/96-484)		http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf01265.html http://laws.justice.gc.ca/eng/regulations/SOR-96-484/)
	Controlled Goods Regulations (SOR/2001-32)		http://laws.justice.gc.ca/eng/regulations/SOR-2001-32/

Reference Number	Reference Title	Ref Date	Source Comments
CFIA D-98-08	CANADIAN FOOD INSPECTION AGENCY. Entry Requirements for Wood Packaging Material into Canada	2008-11-03	http://www.inspection.gc.ca/plants/plant-protection/directives/forestry/d-98-08/eng/1323963831423/1323964135993
CWPCP D-01-05:	The Canadian Wood Packaging Certification Program		http://www.inspection.gc.ca/english/plaveg/protect/dir/d-01-05e.shtml
D-01-002-007/SG-001	Department of National Defence (DND) Standard - Requirements For The Preparation Of Configuration Management Plans	1994-07-29	GFI
D-01-05	Canadian Wood Packaging Certification Program (CWPCP)	2011-03-28	http://www.inspection.gc.ca/plants/plant-protection/directives/forestry/d-01-05/eng/1323885017666/1323885357128
D-01-100-203/SF-000	Preparation of Operating Instructions	2000-10-31	GFI
D-01-100-204/SF-000	Preparation of Preventive Maintenance Instructions	2000-10-31	GFI
D-01-100-205/SF-000	Preparation of Corrective maintenance Instructions	2000-10-31	GFI
D-01-100-207/SF-000	Preparation of Parts Identification List	1987-01-28	GFI
D-01-100-214/SF-000	Specification for Preparation of Provisioning Documentation for Canadian Forces Equipment, 1 May 2002, (Parts Provisioning Breakdown (which allows MIL-STD-1388-2B format)	2002-05-01	GFI
D-01-100-215/SF-000	Preparation of Material Change Notices (MCN) for Canadian Forces Equipment	2002-05-01	GFI

Reference Number	Reference Title	Ref Date	Source Comments
D-01-400-001/SG000	Engineering Drawings Practices	5 Jul 79	GFI
D-01-400-002/SF-000	Levels of Engineering Drawings and Associated Lists	2011-03-01	GFI
D-02-006-008/SG-001	Design Change Deviation and Waiver Process	1985-05-06	GFI
D-LM-008-001/SF-001	Methods of Packaging	1986-06-30	GFI
D-LM-008-002/SF-001	Specification for Marking for Storage and Shipment	1991-08-01	GFI
D-LM-008-022/SG-000	The Standard for packaging of documentation	1981-01-16	GFI
D-LM-008-036/SF-000	Department of National Defence Minimum Requirements For Manufacturer's Standard Pack	1990-06-11	GFI
DND 552	Application For Frequency Supportability (Equivalent US DoD publications will be deemed acceptable if compliance traceability can be clearly indentified against the Government of Canada publications listed above)	2012-06	GFI
DND 570	Contract Publication Change Transmittal Form	2012-11	GFI
DND 626	Requisition Against a Contract	2005-01	GFI
DND 675	Request for Waiver or Deviation	2003-02	GFI
	DOD-D-1000B, Drawings, Engineering and Associated List (USA)		
IEC-60825	Safety of Laser Products	2001-08	http://lpno.tnw.utwente.nl/safety/iec60825-1%7Bed1.2%7Den.pdf
H.264 / MPEG-4 AVC	Standard for Video Compression		

Reference Number	Reference Title	Ref Date	Source Comments
	Hazardous Products Act		http://laws-lois.justice.gc.ca/eng/acts/H-3/index.html
	International Traffic in Arms Regulations (ITAR) (USA)		http://www.pmddtc.state.gov/regulations_laws/itar_official.html
ISO 9001: 2008	Quality Management Systems Requirements		http://www.iso.org/iso/catalogue_detail.htm?csnumber=46486
ISPM No.15	International Standards for Phytosanitary Measures - Guidelines for Regulating Wood Packaging Material in International Trade		http://www.inspection.gc.ca/plants/forestry/imports/wood-packaging/-ispm-15-united-states/eng/1319346561290/1361333887775
MIL-HDBK-61A	Military Handbook Configuration Management Guidance	7 Feb 2001	
MIL-STD-461F	Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment.		
MIL-STD-721C	Definitions of Terms for Reliability and Maintainability		
MIL-STD-810 G	Department of Defence Test Method Standard for Environmental Engineering Considerations and Laboratory Tests.		
MIL-STD-1275D	Characteristics of 28 Volt DC Electrical Systems in Military Vehicles		
MISB 5.1	Motion Imagery Standard Board Version 5.1		
MPEG2 / ISO/IEC 13818	Generic coding of moving pictures and associated audio information		

Reference Number	Reference Title	Ref Date	Source Comments
NIIRS	National Image Interpretability Rating Scales		http://www.fas.org/irp/imint/niirs.htm
SMPTE 336M-2007	Data Encoding Protocol Using Key-Length-Value		
STANAG 2290	Ed. 2 (2010) - Nato Unique Identification Of Items	2010-11-18	
STANAG 3809	NATO Digital Terrain Elevation Data (DTED) Exchange Format		
STANAG 4370	NATO Environmental Testing		
STANAG 4387	NATO ARC Standard Raster Product (ASRP) - AGeoP-5		
STANAG 4545	NATO Secondary Imagery Format		
STANAG 4586	Standard Interfaces of UAV Control System (UCS) for NATO UAV Interoperability.		
STANAG 4609 JAIS (Edition 3)	NATO Digital Motion Imagery Standard dated 13 October 2009, Annex C, Table 2.		http://www.nato.int/structur/AC/224/standard/4609/4609_documents/4609Eed03.pdf
STANAG 7074	Digital Geographic Information Exchange Standard (Digest)		
STANAG 7085 / AEDP-10	Interoperable Data Links for Imaging Systems		

ANNEX G

CANADIAN ARMY
SMALL UNMANNED AIRCRAFT SYSTEM (SUAS)

TECHNICAL BID EVALUATION

Appendix 1	Proof of Compliance Plan and Reports
Appendix 2	System Performance Specification (SPS) Compliance Matrix
Appendix 3	Acquisition Statement Of Work (SOW) Proof of Compliance Matrix
Appendix 4	In-Service Support SOW Proof of Compliance Matrix
Appendix 5	Elements of the Flight Demonstration
Appendix 6	Bidders Technical Proposal Submission Checklist

EVALUATION PLAN

1. INTRODUCTION

1.1 Purpose

1.1.1 The purpose of this Evaluation Plan (EP) is to provide Bidders with the technical bid requirement instructions and the overall EP methodology and procedures that will be followed by evaluators for the evaluation of the Bidder's Proposals, submitted in response to the Request For Proposals (RFP) for a Canadian Forces (CF) Small Unmanned Aircraft System (SUAS) capability and associated support services.

2. INSTRUCTIONS TO BIDDERS

2.1 The Bidder shall include its name in the response.

2.2 The Department of National Defence (DND) bid evaluation team will use Microsoft (MS) Office 2003 and Adobe Acrobat 8.0 software suites to process and view electronic documents submitted. Electronic format documents which the team is unable to open and view using the standard DND desktop software will be deemed non-compliant. The Bidder should submit bid documentation in MS Office 2003 format (primarily MS Word, MS Excel and MS Project files as appropriate).

2.3 The Bidder shall submit its Proof of Compliance Plan in accordance with (IAW) Appendix 1.

2.3.1 As a minimum the Plan shall include all elements of the Bidder's program to support the airworthiness approval process, all elements of the flight program suggested by Canada for the demonstration of mandatory and rated capabilities.

2.3.2 The Plan should include any documentation and demonstration program elements necessary to demonstrate any additional capabilities the Bidder wishes Canada to be aware of.

2.4 Where requested in Appendix 2, the Bidder shall provide a compliance reference for specific instances of compliance with the system performance specification (SPS). The Bidder shall provide references to the specific sections in the proposal to support and substantiate each such required response. Section, paragraph, sub-paragraph and page are to be used when applicable.

2.5 In Appendix 2, the Bidder may choose to self evaluate its compliance by filling a score in the 'Bidder Self Score' columns for rated items. The maximum points for compliance are indicated in the 'Potential Score' column.

2.6 Where requested in Appendix 3, the Bidder shall provide a compliance reference for specific instances of compliance with the system acquisition Statement Of Work (SOW). The Bidder shall provide references to the specific sections in the proposal as indicated to support and substantiate each response. Section, paragraph, sub-paragraph and page are to be used when applicable.

2.7 Where requested in Appendix 4, the Bidder shall provide a compliance reference for specific instances of compliance with the system In-Service Support SOW. The Bidder shall

provide references to the specific sections in the proposal as indicated to support and substantiate each response. Section, paragraph, sub-paragraph and page are to be used when applicable.

2.8 Flight Program

2.8.1 Following the initial evaluation of bids a flight demonstration program will be requested from the Bidders.

2.8.2 The Bidder shall demonstrate compliance IAW the elements identified in its Proof of Compliance Plan. Following any flight demonstration program the Bidder shall submit Proof of Compliance Reports verifying the performance of its System as demonstrated. This Proof of Compliance procedure shall be developed in accordance with Appendix 1 (Proof of Compliance Plan and Reports).

3. EVALUATION STRUCTURE

3.1 The following Phase of the Bidder's Proposal will be evaluated separately, as specified in the applicable section of this Evaluation Plan:

a. Technical Proposal;

b. Financial Proposal (by PWGSC staff);

c. System Demonstration Flight Program; and

d. Technical re-score based on the Demonstration Flight Program results (if applicable).

3.2 The Evaluation will be conducted in phases,

a. Desktop evaluation (Technical and financial proposal evaluation);

b. System Demonstration Flight Program;

c. Desktop re-evaluation based on DFE results;

d. Interim response to Bidders, allowing 14 days to provide proof of compliance for any items deemed non compliant by Canada; and

e. Final evaluation and recommendations from the Bid Evaluation Team.

3.3 The fact that Canada may proceed to a later phase shall not be deemed to mean that Canada has conclusively determined that the Contractor has successfully passed all the previous phases. Canada reserves the right to conduct theses phases in parallel or concurrently.

4. TECHNICAL PROPOSAL

4.1 Each Bidder's Proposal will be evaluated to verify whether the Technical Proposal mandatory Requirements, Plans and the Rated Requirement capability claimed by the bidder have been met as evaluated in accordance with the following appendices:

4.1.1 Evaluation of the Mandatory Requirements:

4.1.1.1 Appendix 2 (SPS Compliance and Technical Evaluation Matrix - SUAS) will be checked to confirm compliance and will be scored by DND.

4.1.1.2 Appendix 3 (Compliance Evaluation Matrix – SUAS Acquisition SOW) and Appendix 4 (Compliance Evaluation Matrix – SUAS In-Service Support SOW) will be reviewed by DND to confirm compliance.

4.1.2 Evaluation of Plans: Each Proposal will be evaluated to verify how each mandatory requirement is met. This is captured in the Bidder's submission of required documentation, with emphasis on the mandatory documents listed in the table of Appendix 1 (Proof Of Compliance Plan And Reports).

4.1.3 Evaluation of the Rated Requirements: The Technical Score for each proposal will be evaluated in accordance with Appendix 2 to Annex G. The Technical Score is prorated against the maximum total possible technical points of the Technical Score table (1,300 points) as per the example contained in the evaluation plan.

4.2 Bidder's Self-Scoring

4.2.1 Bidders may choose to include a self-evaluation of rated capabilities in their proposal. The self evaluation consists of the Bidders completing the "Bidder Self Score" column in the matrix at Appendix 2.

4.2.2 The values scored should then be summed to render the Bidder's total merit self-score.

4.2.3 The Bidder's self score will have no bearing on the Evaluation, but it will provide a comparison between Bidder and evaluation team assessed scores.

4.3 System Demonstration And Validation

4.3.1 When requested by Canada, the Bidder shall fully demonstrate its compliance with selected mandatory system requirements specifications and the rated capabilities claimed by the Bidder.

4.3.2 The Bidder's system demonstration validation will be carried out on selected items identified Appendix 5 (Elements of the Flight Demonstration) to Annex G.

4.3.3 The demonstration shall be at a location mutually acceptable to the Contractor and Canada.

4.3.4 If the Bidder fails to demonstrate one (1) or more mandatory capabilities that should have been demonstrated under the scheduled flight activities the proposal will be deemed to be non-compliant, and the Bidder will be disqualified.

4.3.5 If the Bidder fails to demonstrate one (1) or more rated capabilities that should have been demonstrated under the scheduled flight activities, its Proposal shall be re-scored in accordance with Annex G (Evaluation Plan).

4.3.6 The Contractor shall submit a draft acceptance test report within 48 hours of completion of any demonstration or test. A final report shall be submitted within 30 days of completion of the flight activities.

5. RATED TECHNICAL SCORE CALCULATION

5.1 Technical Score: The Technical Score for each proposal will be obtained from the evaluation in accordance with Appendix 2 (SUAV System Performance Specification Technical Rating) to Annex G.

5.1.1 The Technical Score will be based on a maximum potential technical score of 1,000 points.

5.1.2 The minimum point required for the technical score is 250 points.

5.1.3 The example below depicts how the Technical Score is calculated, and does not reflect actual contract values.

Bidder Score	Technical Score Calculation	Technical Score
685	$\frac{685 * 70}{1300}$	36.88

Appendix 1
To Annex G
Solicitation No: W8476-133924

SMALL UNMANNED AIRCRAFT SYSTEM (SUAS)

PROOF OF COMPLIANCE PLAN AND REPORTS

1 Proof of Compliance Plan (PCP):

1.1 The Bidder shall submit a PCP that enables the Bidder to prove compliance to sections of Annex B System Performance Specification (SPS). The PCP shall include the provision of documentation in support of the airworthiness approval process and the demonstration of capabilities that can be proven during a Performance Demonstration Program. As a minimum the Performance Demonstration program shall include all elements of the Program test checklist in Annex G, Appendix 5.

1.2 The Bidder's PCP shall detail how the Bidder will demonstrate compliance of the System design and function in accordance with Annex B SPS.

1.3 Compliance with each of the requirements shall also be documented in clearly separate sections of Annex G, Appendix 2 (SPS Compliance and Technical Evaluation Matrix), Appendix 3 (Acquisition Statement of Work (SOW) Compliance Evaluation Matrix), Appendix 4 (In Service Support Statement of Work (SOW) Compliance Evaluation Matrix), and supporting documentation.

1.4 The Performance Demonstration Program procedures shall include a description of the overall flight plans, objectives, requirements, resource requirements and procedures for achieving the respective Performance Verification goals.

1.5 The PCP shall be prepared in Bidder format and shall include:

a. Description of Compliance process;

b. Validation and verification process, including Flight Program procedures;

c. Resources, including locations for the Flight Program; and

d. Schedule. Weather permitting, the schedule shall complete all Flight Program elements within 104 hours (i.e.: Between 0800 Hours on a Monday and 1600 Hours on the following Friday).

1.6 If the Bidder's PCP does not contain suitable elements (documents and demonstration flight procedures) to validate the system compliance to the Annex B (SPS) the Bidder shall be required to complete additional procedures that verify the specific Annex B (SPS) performance to Canada's satisfaction as directed by Canada during the Performance Demonstration Program.

Note: If selected for the demonstration flight program, the Bidder has until the start of the demonstration flight program to provide any additional documents or flight test cards. Otherwise Canada shall impose a step by step program checking each applicable item from the SPS in a sequence determined by Canada.

2 Proof of Compliance Activities:

2.1 The Flight Procedures documentation shall be prepared in Bidder format and contain the following:

a. The purpose and objectives of each Flight and each simulator demonstration;

b. Flight/demonstration schedule;

c. Flight Conditions;

d. A description of the Flight site, including a listing of all resources required;

e. A description of Flight instrumentation required, if any;

f. Flight procedures, including step-by-step procedures to obtain the data necessary to determine conformance with the requirement; and

g. Data sheets/cards shall be included for recording data of each Flight. Provisions for recording the date of the Flight, signature of Bidder witnesses and signature of DND POC witness shall be included.

2.2 The Performance Demonstration Program shall, as a minimum, include and demonstrate all elements of the checklist at Appendix 5.

3 Bidder's Proof of Compliance Report:

3.1 The Bidder's Proof of Compliance Report shall be prepared in Bidder format. The Bidder shall draft the report while conducting the Flight Program and all parties shall review the report upon completion of each flight. The reports shall include as a minimum:

a. Analysis data;

b. Flight results;

c. A completed Traceability Matrix; and

d. Non-compliant results.

4 Elements of the Flight/Simulator Demonstration Program (GCS)

4.1 To be awarded a contract the Bidder shall successfully complete the Flight and Simulator performance program.

4.2 Flights will occur at a location suitable to Canada and to the Bidder in order to ensure efficient use of resources, minimizing the logistic effort required.

4.3 The purpose of the Performance Demonstration Program is to validate the Bidder's compliance to mandatory and rated performance and operation claims, as per Annex B SPS, and to confirm system performance during acceptance testing.

4.4 Operational Performance: With the exception of survivability all the specifications for which there is an "ATP" check box in Appendix 2, shall be demonstrated within four (4) or less operational performance flights.

4.5 During the Flight Program the Bidder shall provide to the Contract authority a DVD or CD with all Still Imagery and Motion Imagery as available at the output of the GCS. These shall contain appropriate data for the verification of all mandatory system metadata specification elements. This data shall be the property of DND for the sole purpose of conducting post-flight data analysis and for confirmation testing of data compliance to interoperability standards adopted by Canada. This data shall not be subsequently shared by Canada with other countries or organizations; it shall be used solely for the investigation, analysis and demonstration of the particular SUAS capability to determine if the performance claims were in fact achieved. An original copy of this data for each flight shall be provided to Canada within one (1) hour of the completion of each applicable flight.

4.6 If the system output data captured is not in accordance with the meta data format and content requested by Canada, the Bidder shall provide all information required for Canada to extract the system meta data output to the format requested. (i.e.: appropriate information on the format and content of the meta data stream to enable Canada to process the data stream in real time on a notebook computer and generate the required meta data format.)

SYSTEM PERFORMANCE SPECIFICATION (SPS)
COMPLIANCE AND TECHNICAL EVALUATION MATRIX
SMALL UNMANNED AIRCRAFT SYSTEM (SUAS)

Compliance Statement/Proof of Compliance/Demonstrate	
Compliance Statement:	Where the Bidder input row indicates "Compliance Statement" the value has been set to (YES) by default. Bidders not conforming or agreeing with this requirement should replace the Compliance Statement with (NO), the bid will then be deemed to be non compliant.
Proof of Compliance:	Bidder is requested to provide a reference to the specific section of the bid proposal or document which supports the bidders compliance claim Bidder shall provide supporting documentation, test reports or other supporting documentation when applicable.
Demonstrate:	Demonstrate the capability to the extent practical under the ambient conditions at the time of the Demonstration Flight Evaluation.

Rated Items	
Potential Score:	The potential score which may be awarded for a non-mandatory performance specification item
Bidder Self Score:	Optional. The bidder may choose to include the score it deems appropriate for its bid proposal item
Score:	The Score the CAF and PWGSC will assign during bid evaluation. For some items the score is subject to downward revision at the conclusion of any demonstration flight program if the item is not demonstrated to Canada's satisfaction.

ATP Check
This column denotes items to be verified during any demonstration flight program and/or in accordance with a System Acceptance Test Plan.
DND representatives will check off the item when satisfied that the criterion have been fulfilled for each system and item subjected to acceptance testing.
ATP Check items which can not be demonstrated at the time of the Demonstration Flight Evaluation will still need to be included in the ATP for eventual System acceptance testing.

Note: Shaded cells in the table do not require input from the Bidder, or DND input during demonstration flights and system acceptance testing.
Column 1 indicates the following: M = Mandatory, R = Rated, S = Scoring information

SPS Compliance And Technical Evaluation Matrix
Small Unmanned Aircraft System

	Bidder's name: _____	Potential Score	Bidder Self Score	DND Score	ATP Check
	DND Input: System Performance Specification (SPS) Section				
	Bidder Response: Compliance Statement or Proof of Compliance as applicable Bidder's proposal document, page, section/para/sub-para, etc.)				
	1. SCOPE				
	2. REFERENCES				
	3. GENERAL REQUIREMENTS				
	3.1 Equipment				
M	3.1.1 Each System shall include the air vehicles (AVs) and all the specialised ground equipment required for the runway independent AV launch and recovery and the in-flight control of the AVs.				
	Compliance Statement: YES				
	Demonstrate:				
M	3.1.2 For the initial program deliverables each System shall include: a. four (4) aircraft; b. two (2) sets of launch/recovery equipment; c. four (4) mobile Ground Control Station (GCS) sets; and d. four (4) Stationary GCS sets.				
	Compliance Statement: YES				
	Demonstrate: Demonstrate Contractor's GCS, launch/recovery equipment, aircraft, and specialized items the System uses.				
	3.2 Radio Frequency Safety				
M	3.2.1 Safety distances for exposure to radio-frequency radiation shall conform to DND and Canadian government regulations and standards.				
	Compliance Statement: YES				
	Proof of Compliance: (1) Provide the specifications for all transmitters and antennas. (If the specifications are provided on a complete set of DND-552 and/or DoD 1494 forms provided with the proposal, refer to the appropriate sections of those forms); and (2) Provide Contractor radio frequency safety information.				
	4. HANDLING AND OPERATIONS				
	4.1. Handling				

	Bidder's name: _____	Potential Score	Bidder Self Score	DND Score	ATP Check
	DND Input: System Performance Specification (SPS) Section				
	Bidder Response: Compliance Statement or Proof of Compliance as applicable Bidder's proposal document, page, section/para/sub-para, etc.)				
M	4.1.1 All System components, assemblies (except for the aircraft) and packed storage/shipping containers that need to be manually lifted and positioned by CAF personnel during System operational setup, the conduct of operations, and during post-operational equipment pack-up, shall have a mass of less than 60 kg (132 lb). (I.e.: The limit for items to be deemed "man transportable" by a two (2) person team in accordance with (IAW) STANAG 2998/AAP 24.)				
	Compliance Statement: YES				
M	4.1.2 All System components, assemblies and packed storage/shipping containers that need to be manually towed, rolled, or skidded into position by CAF personnel during System operational setup, the conduct of operations, and during post-operational equipment pack-up, shall have a mass of less than 200 kg /440 lb. (I.E.: The limit for an item to be deemed "man-movable" by one (1) person IAW STANAG 2998/AAP 24.)				
	Compliance Statement: YES				
M	4.1.3 With the payload required to meet the mission profile, the assembled aircraft shall have a Gross Maximum Take Off Weight (GMTOW) of less than 84 kg /185 lbs.				
	Compliance Statement: YES				
	4.2. System Deployment				
M	4.2.1. The shelter installed stationary GCS (SGCS) design and shipping procedures shall enable a crew of four (4) typical size and typical strength CAF personnel with System experience to have all System equipment deployed and ready to commence pre-flight operational checks within one (1) hour.				
	Compliance Statement: YES				
	4.3. System Pack-up				
M	4.3.1. The SGCS installation design and included shipping procedures and containers shall enable a crew of four (4 typical size and typical strength CAF personnel with System experience to pack up and prepare the SGCS and MSVS shelter for transportation within two (2) hours.				
	Compliance Statement: YES				
	5. SURVIVABILITY AND ENVIRONMENTAL SUSTAINABILITY				
	5.1 General				
	5.2 Environmental Conditions				
	5.2.1 Weather.				
M	5.2.1.1 The System shall be able to successfully launch, operate IAW the performance specification, and recover the AV, throughout the range of environmental conditions for which flight operations would be authorized from -20º to +45º Celsius (C) (1)(2) (-4º Fahrenheit (F) to +115º F)(1)(2) (excluding icing conditions).				
	Compliance Statement: YES				

	Bidder's name: _____	Potential Score	Bidder Self Score	DND Score	ATP Check
	DND Input: System Performance Specification (SPS) Section				
	Bidder Response: Compliance Statement or Proof of Compliance as applicable Bidder's proposal document, page, section/para/sub-para, etc.)				
M	5.2.1.2 If the local conditions are within acceptable limits the System shall be capable of successfully launching the AV and transiting through up to five (5) km of adverse local conditions (excluding icing conditions) to reach a more suitable operational environment.				
	Compliance Statement: YES				
R	5.2.1.3 The System should be able to safely launch, operate IAW the performance specifications, and recover in ambient temperatures below -20º C / -4º F (down to -29°C / -20 °F) (excluding icing conditions).				
S	Proof of Compliance: List and provide test or operational reports that support the claim.	18	0	0	
	Score: 2 points per degree C below -20 C for certified low temperature testing with reports acceptable to Canada. Maximum 18 points for testing at or below -29 C.				
	5.2.2 Water and Moisture	0	0	0	
M	5.2.2.1 Installation designs and packaging used for storage and shipping shall adequately protect components and assemblies from water damage. As a minimum, this includes protection from precipitation, from small quantities of water or liquids used during cleaning and handling of equipment, from exposure to high humidity, and from condensation occurring during changes to the ambient environment.	0	0	0	
	Compliance Statement: YES				
R	5.2.2.2 The System storage and shipping containers should already have completed water and moisture ingress protection testing IAW section 5.2.4.2 b, d or equivalent applicable standards.				
S	Proof of Compliance: List and provide test reports that support the claim.	10	0	0	
	Score: 10 points if certified test reports acceptable to Canada are provided.				
	5.2.3 Shock and Vibration	0	0	0	
M	5.2.3.1 Any item which is attached to a shelter or a vehicle while the shelter or vehicle is in motion shall be mounted in a manner which protects the component from at least 3.0 g shocks applied to the shelter or vehicle for frequencies up to at least 200 Hz.	0	0	0	
	Compliance Statement: YES				
M	5.2.3.2 When packaged in shipping/storage containers, the System shall as a minimum withstand 3.0 g shocks and vibrations up to 200 Hz applied to the shipping/storage container.	0	0	0	
	Compliance Statement: YES				

	Bidder's name: _____	Potential Score	Bidder Self Score	DND Score	ATP Check
	DND Input: System Performance Specification (SPS) Section				
	Bidder Response: Compliance Statement or Proof of Compliance as applicable Bidder's proposal document, page, section/para/sub-para, etc.)				
R	5.2.3.3 The System should already have completed appropriate shock and vibration testing for vehicle installation equipment and for rack mount equipment in an installation similar to the CAF GCS IAW sections 5.2.4.2 f, g, h, i, j, k, l and/or m as applicable.				
S	Proof of Compliance: Test reports	10	0	0	
	5.2.3.3 Score: 10 points if the Bidder provides acceptable certified test documentation with the proposal.				
	5.2.4 Environmental Test Reports	0	0	0	
R	5.2.4.2 Where there is no applicable certified test report any applicable existing reports from operational trials or live operations should provide useful information for initial System airworthiness and suitability assessments. MIL-STD tests considered applicable include, but are not limited to, the following:	0	0	0	
R	a. Temperature (high and low) - Method 501.4, (810.G) procedure I and II and 502.4 and procedure I and II respectively;	0	0	0	
S	Proof of Compliance: Test reports	0	0	0	
	5.2.4.2.a Score: 5 points for providing certified test results acceptable to Canada with successful testing to the desired maximum temperature	5	0	0	
	5.2.4.2.a Score: 5 points for providing certified test results acceptable to Canada with successful testing to the desired minimum temperature	5	0	0	
R	b. Humidity - Method 507.4, (810.G);	0	0	0	
S	Proof of Compliance: Test reports	4	0	0	
	5.2.4.2.b Score: 4 points for providing certified test results acceptable to Canada				
R	c. Dust Resistance - Method 510.4, procedure I (810.G) or IP 54 Standard; and	0	0	0	
	Proof of Compliance: Test reports	2	0	0	
	5.2.4.2.c Score: 2 points for providing acceptable certified test results acceptable to Canada				

	Bidder's name: _____	Potential Score	Bidder Self Score	DND Score	ATP Check
	DND Input: System Performance Specification (SPS) Section				
	Bidder Response: Compliance Statement or Proof of Compliance as applicable Bidder's proposal document, page, section/para/sub-para, etc.)				
R	d. Water Resistance - Method 506.4, procedure III (810.G) or IP 54 Standard.	0	0	0	
S	Proof of Compliance: Test reports	4	0	0	
	5.2.4.2.d Score: 4 points for providing certified test results acceptable to Canada				
R	e. MIL-HDBK-810G Section 514.6, Procedure III (Transport), Category 20, for installed equipment.	0	0	0	
S	Proof of Compliance: Test reports	5	0	0	
	5.2.4.2.e Score: 5 points if compliance claim is supported by acceptable test reports				
R	f. MIL-STD 810G, Vibration, Method 514.6, Procedure 1 - General Vibration, Category 4, Secured Cargo on logistic/support vehicles similar to US M998, and M1009 fleets.	0	0	0	
S	Proof of Compliance: Test reports	5	0	0	
	5.2.4.2.f Score: 5 points if compliance claim is supported by acceptable test reports				
R	g. MIL-STD 810G, Vibration, Method 514.6, Procedure 2 - General Vibration, Category 5, Loose Cargo on logistic vehicles similar to US M36, Mk27, and M1083/M1084/M1085 fleets.	0	0	0	
S	Proof of Compliance: Test reports	5	0	0	
	5.2.4.2.g Score: 5 points if compliance claim is supported by acceptable test reports				
R	h. MIL-STD 810G, Vibration, Method 514.6, Procedure 1 - General Vibration, Category 20, and Cargo carried on operational wheeled vehicle, and on combat vehicles such as the Light Armoured Vehicle III (LAV III), Tactical Armoured Patrol Vehicle (TAPV) and Tracked Light Armoured Vehicle (TLAV).	0	0	0	
S	Proof of Compliance: Test reports	5	0	0	
	5.2.4.2.h Score: 5 points if compliance claim is supported by acceptable test reports				

SPS Compliance And Technical Evaluation Matrix
Small Unmanned Aircraft System

	Bidder's name: _____	Potential Score	Bidder Self Score	DND Score	ATP Check
	DND Input: System Performance Specification (SPS) Section				
	Bidder Response: Compliance Statement or Proof of Compliance as applicable Bidder's proposal document, page, section/para/sub-para, etc.)				
R	i. MIL-STD 810G, Vibration, Method 514.6, Procedure 1 - General Vibration, Category 24, All Material, Minimum Integrity Test.	0	0	0	
S	Proof of Compliance: Test reports	5	0	0	
	5.2.4.2.i Score: 5 points if compliance claim is supported by acceptable test reports				
R	j. MIL-STD 810G, Shock, Method 516.6, Procedure 4 - Transit Drop;	0	0	0	
S	Proof of Compliance: Test reports	10	0	0	
	5.2.4.2.j Score: 10 points if compliance claim is supported by acceptable test reports				
R	k. MIL-HDBK-810G Section 514.6, Procedure III (Transport);	0	0	0	
S	Proof of Compliance: Test reports	5	0	0	
	5.2.4.2.k Score: 5 points if compliance claim is supported by acceptable test reports				
R	l. MIL-HDBK-810G Section 514.6, Procedure V (Crash Hazard); and	0	0	0	
S	Proof of Compliance: Test reports	5	0	0	
	5.2.4.2.l Score: 5 points if compliance claim is supported by acceptable test reports				
R	m. MIL-HDBK-810G Section 514.6, Procedure VI (Bench Handling.	0	0	0	
S	Proof of Compliance: Test reports	5	0	0	
	5.2.4.2.m Score: 5 points if compliance claim is supported by acceptable test reports				
	6. MAINTAINABILITY	0	0	0	
	6.1 Self Test	0	0	0	

	Bidder's name: _____	Potential Score	Bidder Self Score	DND Score	ATP Check
	DND Input: System Performance Specification (SPS) Section				
	Bidder Response: Compliance Statement or Proof of Compliance as applicable Bidder's proposal document, page, section/para/sub-para, etc.)				
M	6.1.1 The System shall include ground test and pre-flight diagnostic tools and design features that enable CAF operators to conduct troubleshooting/ fault diagnosis activities required to conduct scheduled operator and corrective maintenance.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Demonstrate:	0	0	0	
M	6.1.2 The System shall include ground test and pre-flight built-in tests which at the minimum enable the operator to easily detect all common system and sub-system failures that could affect control and performance of the AV and control and performance of the payload(s).	0	0	0	
	Compliance Statement: YES	0	0	0	
	Demonstrate:	0	0	0	
	6.2 Assembly Assistance Measures	0	0	0	
M	6.2.1 In addition to the use of clear labelling practices, the assembly of the different System components and internal connectors shall be protected by means of indicators or design elements which prevent incorrect assembly. (i.e.: either mechanical, audible or visual indicators or a combination thereof.)	0	0	0	
	Compliance Statement: YES	0	0	0	
	7. AIRWORTHINESS	0	0	0	
	7.1 Maturity And Reliability (Operational Hours)	0	0	0	
M	7.1.1 To support the validity of System maturity associated performance reliability and maintainability data provided by the Contractor in support of System airworthiness assessment, the System shall have accumulated over 1,200 hours of military or commercial operational experience for each of the following components: a. airframe; b. avionics system; c. data link; and d. propulsion system.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance: Provide documentary evidence for each major assembly listed above:	0	0	0	

	Bidder's name: _____	Potential Score	Bidder Self Score	DND Score	ATP Check
	DND Input: System Performance Specification (SPS) Section				
	Bidder Response: Compliance Statement or Proof of Compliance as applicable Bidder's proposal document, page, section/para/sub-para, etc.)				
M	7.1.2 The System shall have completed at least one (1) successful ship based flight which included launch from a ship, conduct of a mission, and recovery aboard the ship.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance: Operation or trial report	0	0	0	
	8. AIR SUB-SYSTEM EFFECTIVENESS REQUIREMENTS	0	0	0	
	8.1 Endurance Profile	0	0	0	
M	8.1.1 The AV system shall provide ISR service mission endurance, while operating the system avionics, transponder and the baseline payload, that meets or exceeds the following mission profile and mission conditions: a. At launch Density Altitude of Sea Level standard temperature conditions; b. No wind to assist launch or affect transit; c. A requirement to clear an obstacle at the edge of a 100 m x 100 m launch site where the obstacle is 10 m higher than the ground level in the immediate vicinity of the launch site; d. Post launch performance checks conducted by the launch team; e. 50 km transit from the launch site to the mission operations area; f. If applicable, handover from the launch team to the mission operators before, during, or after the transit to the mission operations area; g. 12 hours continuous coverage of the area of interest using an economical cruise power setting; at an average operational altitude of 762 m/2,500 ft AGL; h. 50 km transit from the mission operations area to the recovery team handover site; i. If applicable, handover from the mission operators to the recovery team before, during, or after the transit to the recovery site; j. Conduct one (1) missed approach/wave-off procedures, followed by a successful recovery/landing; and k. Fuel reserves for at least an additional 60 minutes of loiter at minimum fuel consumption rate.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance: Test/trial report(s)	0	0	0	
	Demonstration:	0	0	0	

SPS Compliance And Technical Evaluation Matrix
Small Unmanned Aircraft System

	Bidder's name: _____	Potential Score	Bidder Self Score	DND Score	ATP Check
	DND Input: System Performance Specification (SPS) Section				
	Bidder Response: Compliance Statement or Proof of Compliance as applicable Bidder's proposal document, page, section/para/sub-para, etc.)				
M	8.2 The AV shall be capable of maintaining a true airspeed of at least 115 km/h (62 knots (kt)) at a density altitude of 1,000 m/3280 ft for 75 minutes for tracking mobile targets.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance: Test/trial Report(s)	0	0	0	
	Demonstration:	0	0	0	
	8.3 Wind Conditions.	0	0	0	
M	8.3.1 The System shall be able to launch and recover the AVs with at least 2.6 metres/second (m/s) (5 kt) tail wind. (Launches may be allowed with a reduced payload provided on-target mission endurance is at least eight (8) hours.)	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance: List and provide applicable charts or graphs showing the safe launch profiles and safe recovery profiles, with the AV weight for which each chart or graph is valid.	0	0	0	
M	8.3.2 The System shall be able to launch and recover the AVs with at least a 5.2 m/s (10 kt) cross wind. (When allowed by the mission schedule the launches may be accomplished with a reduced payload provided on-target mission endurance is at least eight (8) hours.)	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance: Data from tests, trials or operations	0	0	0	
M	8.3.3 The System shall be able to launch and recover into steady winds of at least 12.9 m/s (25 kt).	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance: Data from tests, trials or operations	0	0	0	

	Bidder's name: _____	Potential Score	Bidder Self Score	DND Score	ATP Check
	DND Input: System Performance Specification (SPS) Section				
	Bidder Response: Compliance Statement or Proof of Compliance as applicable Bidder's proposal document, page, section/para/sub-para, etc.)				
R	8.3.4 The System should be able to launch and recover into wind gusts up to 20.6 m/s (40 kt) when the average steady state wind does not exceed 12.9 m/s (25 kts).	0	0	0	
S	Proof of Compliance: Data from tests, trials or operations	12	0	0	
	8.3.4 Score: 12 point for the capability to launch and recover in wind gusts up to 40 kts.				
	8.4 Restricted Operating Site Conditions.	0	0	0	
M	8.4.1 With the fuel and payload configuration required to meet the mission profile at section 8.1.1 the System shall be capable of launching the RV from an area 100 m x 100 m surrounded by obstacles up to 10 m above the ground level in the immediate vicinity of the launch site.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance: Engineering and/or test reports: Describe any special requirements for the launch/recovery site.	0	0	0	
	Demonstration: – Simulated obstacles:	0	0	0	
M	8.4.2 With the baseline payload and with a fuel reserve for a minimum of one (1) hour of flight the System shall be capable of recovering the AV in an area 100 m x 100 m surrounded by obstacles 10 m higher than the ground level in the immediate vicinity of the recovery site.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance:	0	0	0	
	Demonstration: – Simulated obstacles:	0	0	0	
M	8.4.3 The System shall be able to launch and recover from Royal Canadian Navy (RCN) Halifax Class Frigates (flight deck of approximately 22 m length and 13.5 m width), and larger ships. The AV is not to be launched and/or recovered while the ship's helicopter is on the flight deck. Refer to Halifax Class level 1 drawing provided for flight deck dimensions in appendix 1 to annex B.	0	0	0	
	Compliance Statement: YES	0	0	0	

	Bidder's name: _____	Potential Score	Bidder Self Score	DND Score	ATP Check
	DND Input: System Performance Specification (SPS) Section				
	Bidder Response: Compliance Statement or Proof of Compliance as applicable Bidder's proposal document, page, section/para/sub-para, etc.)				
R	8.4.4 With the maximum fuel and payload configuration the AV should be capable of being launched from a 50 m x 50 m area surrounded by obstacles 10 m higher than the ground level in the immediate vicinity of the launch site.	0	0	0	
S	Proof of Compliance: Engineering and/or test reports: Demonstration – Use simulated obstacles: 8.4.4 Score: 15 points for demonstrating a launch from a 50 m * 50 m site with simulated obstacles as described.	15	0	0	
R	8.4.5 The AV should be capable of being recovered in an area 50 m x 50 m surrounded by obstacles 10 m higher than the ground level in the immediate vicinity of the recovery site.	0	0	0	
S	Proof of Compliance: Engineering and/or test reports: Demonstrate – Use simulated obstacles: 8.4.5 Score: 15 points for demonstrating a landing in a 50 m * 50 m site with simulated obstacles as described	15	0	0	
	8.5 Lost Link Recovery	0	0	0	
M	8.5.1 The System shall provide a reliable lost link recovery capability, programmable by the operator, which allows the AV to return to an operator specified point if the data link is lost.	0	0	0	
	Compliance Statement: YES	0	0	0	
M	8.5.1.1 The System information shall include enough information to enable the operators to predict the manoeuvres that the AV would perform to regain the data link	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance: Documentation describing AV manoeuvres.	0	0	0	
M	8.5.1.2 The System information shall include enough information to enable the operators to predict the manoeuvres that the AV would perform to autonomously recover the AV if the data link is not re-established.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance: Documentation describing AV manoeuvres.	0	0	0	
M	8.5.2 The System lost link recovery capability shall not command an AV to climb above a ceiling altitude set by the GCS.	0	0	0	
	Compliance Statement: YES	0	0	0	

	Bidder's name: _____	Potential Score	Bidder Self Score	DND Score	ATP Check
	DND Input: System Performance Specification (SPS) Section				
	Bidder Response: Compliance Statement or Proof of Compliance as applicable Bidder's proposal document, page, section/para/sub-para, etc.)				
M	8.5.3 The AV shall fly autonomously without the requirement for two-way data link communications.	0	0	0	
	Compliance Statement: YES	0	0	0	
	8.6 Engine.	0	0	0	
M	8.6.1 Any engine powered AV shall be powered by a Heavy Fuel Engine (HFE) that as a minimum shall operate IAW the SPS with F37, JP5 and JP8 fuel.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance: Test Reports:	0	0	0	
	Demonstrate	0	0	0	
M	8.6.2 The HFE shall have accumulated a minimum of 200 hours of combined ground testing, flight testing, and/or operational service.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance: Test Reports:	0	0	0	
R	8.6.3 The HFE should have accumulated a minimum of 3,000 hours of flight testing and/or operational service.	0	0	0	
S	Proof of Compliance: Test and/or Operational reports	300	0	0	
	8.6.3 Score: 1 point per 10 hours of flight time, to a maximum of 300 points at 3,000 hours				
	8.7 Payload	0	0	0	

	Bidder's name: _____	Potential Score	Bidder Self Score	DND Score	ATP Check
	DND Input: System Performance Specification (SPS) Section				
	Bidder Response: Compliance Statement or Proof of Compliance as applicable Bidder's proposal document, page, section/para/sub-para, etc.)				
M	8.7.1 The baseline payload stabilized, steerable package for all missions shall provide at least the following: a. colour Electro-Optical (EO) daylight video; b. Infra-red (IR) video; c. Generation III Night Vision Goggle (NVG) compatible laser pointer/illuminator capable of being used to indicate objects or areas of interest to observers with appropriate Night Vision equipment: (1) The laser pointer/illuminator performance shall be such that Generation III NVG equipped personnel shall be able to detect the indicated object when illuminated by the AV operating at a 1,000 m/3,280 ft slant range from the item of interest, and (2) Incorporation of appropriate laser safety measures and provision of applicable laser safety documentation is mandatory for the laser pointer. The integration of any such laser shall be done in such a way that it is eye-safe during ground testing IAW CFTO C-02-040-002/TS-001 (entitled Laser Safety), C-02-040-002/AA-000 (entitled Evaluation and Control of Laser Hazards), and the American National Standard for Safe Use of Lasers (ANSI Z136 latest edition). It shall also include adequate safety mechanisms to make a discharge from a stationary AV during ground testing extremely unlikely, and to prevent injury in the event of an accidental discharge; and d. Laser Range Finder (LRF) (installed in the stabilized optical payload) which registers ranges to at least 3,000 m/10,000 ft. The LRF operation procedures shall incorporate appropriate laser safety measures IAW the applicable laser safety documentation. The control procedures shall be implemented in such a way that it is eye-safe during ground testing;	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance: Test reports (if available)	0	0	0	
	Demonstration:	0	0	0	
M	8.7.2 In addition to the baseline payload the AV shall have the capability to concurrently support additional payloads. The payload bay shall support as a minimum weight of 2.3 kg /5 pounds, available power of at least 100 Watts for the additional payloads, and a minimum volume of 13.1 litres/800 in3/0.46 ft^3.	0	0	0	
	Compliance Statement: YES	0	0	0	

	Bidder's name: _____	Potential Score	Bidder Self Score	DND Score	ATP Check
	DND Input: System Performance Specification (SPS) Section				
	Bidder Response: Compliance Statement or Proof of Compliance as applicable Bidder's proposal document, page, section/para/sub-para, etc.)				
R	8.7.2.1 While operating with a fuel load that meets the endurance performance requirements defined in section 8.1.1, the AV should have the capability to carry more than 2.3 kg/5 lb) of additional payloads, up to a 20 kg/44 lb additional payload weight.	0	0	0	
S	Proof of Compliance: System specifications, and (if available) test reports	40	0	0	
	8.7.2.1 Score: Starting at 2.3 kg/5 lb of payload capacity, one (1) point per 0.5 kg of additional payload capacity to a maximum of 40 points at 20 kg/44 lb of additional payload capacity while operating with the fuel load required to meet all endurance requirements. I.E.: 2 * { Total additional payload capacity (kg) - 2.3 kg baseline }				
R	8.7.2.2 While operating the baseline EO/IR payload and all standard avionics and transponders the AV should have the capability to provide more than the 100 watts to additional payloads, up to 400 watts of additional power, for the operation of additional payloads beyond the baseline payload.	0	0	0	
S	Proof of Compliance: System specifications, and (if available) test reports	60	0	0	
	8.7.2.2 Score: Starting with zero points for the mandatory minimum of 100 watts of additional payload power, add 3 points per 20 watts of additional available payload power, to a maximum of 60 points for an increase of 400 watts or more power for additional payloads. I.E.: (Total available payload power – 100 watts minimum additional payload power) * 3 / 20				
R	8.7.2.3 The AV should have more than the minimum 13.1 l/800 in^3 / 0.46 ft^3 of additional payload volume capacity, up to or more than 50.1 l/1.77 ft^3 of additional useable volume available for additional standard format radio relay, Electronic Support Measure (ESM), Synthetic Aperture Radar (SAR) and other potential payloads.	0	0	0	
S	Proof of Compliance: System specifications, and (if available) test reports	37	0	0	
	8.7.2.3 Score: Starting at 0 points for the mandatory 13.1 litres/800 in3 of additional payload space, 1 point per litre of additional useable and available volume to a maximum of 37 points at a total volume of 50.1 or more litres of payload space. I.E.: (Total volume – 13.1 litres) * 1 point per litre				

	Bidder's name: _____	Potential Score	Bidder Self Score	DND Score	ATP Check
	DND Input: System Performance Specification (SPS) Section				
	Bidder Response: Compliance Statement or Proof of Compliance as applicable Bidder's proposal document, page, section/para/sub-para, etc.)				
R	8.7.2.4 The System or its predecessors in the SUAS class should have already operated with a radio relay payload such as the MicroLight RT-1922.	0	0	0	
S	Proof of Compliance: Report 8.7.2.4 Score: 40 points for providing proof acceptable to Canada of already having experience with integrating the RT-1922 encrypted radio relay capability. 15 points for providing proof acceptable to Canada of having an alternative radio relay system other than the RT-1922 integrated into the AV and approved for flight operations.	40	0	0	
R	8.7.2.5 The System or its predecessors in the SUAS class should have already operated with an ESM payload.	0	0	0	
S	Proof of Compliance: Report 8.7.2.5 Score: 8 points for already having experience with integrating an applicable radio intercept capability.	8	0	0	
R	8.7.2.6 The System or its predecessors in the SUAS class should have already operated with a SAR payload.	0	0	0	
S	Proof of Compliance: Report 8.7.2.6 Score: 8 points for already having experience with integrating a SAR capability.	8	0	0	
	8.7.3 Camera Zoom	0	0	0	
M	8.7.3.1 The EO camera shall have at least a 10:1 optical zoom capability	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance: Provide camera system specifications	0	0	0	
M	8.7.3.2 The IR cameras shall have at least a 4:1 optical zoom capability	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance: Provide camera system specifications	0	0	0	

	Bidder's name: _____	Potential Score	Bidder Self Score	DND Score	ATP Check
	DND Input: System Performance Specification (SPS) Section				
	Bidder Response: Compliance Statement or Proof of Compliance as applicable Bidder's proposal document, page, section/para/sub-para, etc.)				
R	8.7.3.3 The EO camera should have up to a 20:1 optical zoom capability. (I.e.: From at least a 25 degree wide angle field of view to a less than 1.6 degree narrow field of view).	0	0	0	
S	Proof of Compliance: Provide camera system specifications	100	0	0	
	Demonstration:				
	8.7.3.3 Score: Zero (0) points for a 10:1 optical zoom. 2.5 points per zoom factor of 0.25 increase beyond a 10:1 optical zoom, to a maximum of 100 points for a 20:1 or more total optical zoom capability covering from less than a 1.6 degree width narrow field of view to at least a 25 degree width wide field of view.				
R	8.7.3.4 The IR camera should have up to a 14:1 optical zoom capability which covers at least a 25 degree wide angle field of view to no more than a two (2) degree narrow field of view.	0	0	0	
S	Proof of Compliance: Provide camera system specifications	100	0	0	
	Demonstration:				
	8.7.3.4 Score: Zero (0) points for a 4:1 optical zoom or less 2.5 points per zoom factor of 0.25 increase beyond a 4:1 optical zoom, to a maximum of 100 points for a 14:1 or more optical zoom capability.				
M	8.7.4 The System shall be capable of maintaining stationary targets and targets manoeuvring at ground speeds of up to 22.2 m/s (80 km/h) in the optical payload FOV for extended periods of more than five (5) minutes. This shall be achieved at image resolution and target ranges that enable operators to identify targets and to determine the apparent intent/actions of personnel being observed.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance:	0	0	0	
	Demonstration:	0	0	0	
	8.7.5 Automatic Identification System (AIS)	0	0	0	
M	8.7.5.1 The AV shall be equipped with an AIS capability which detects and relays ship identification and similar information to the GCS.	0	0	0	
	Compliance Statement: YES	0	0	0	
	8.8 Visual Detectability	0	0	0	

	Bidder's name: _____	Potential Score	Bidder Self Score	DND Score	ATP Check
	DND Input: System Performance Specification (SPS) Section				
	Bidder Response: Compliance Statement or Proof of Compliance as applicable Bidder's proposal document, page, section/para/sub-para, etc.)				
M	8.8.1 The AV shall have a low visibility colour scheme suitable for typical daylight operations.	0	0	0	
	Compliance Statement: YES	0	0	0	
M	8.8.2 The AV shall be equipped with an IR strobe visible to generation III NVG to assist other airspace users to locate the AV during night operations, and to assist recovery crew with locating the AV during recovery. a. The IR strobe light fitted shall be controllable from the GCS. b. The IR strobe light fitted shall not emit light visible to the unaided eye.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance:	0	0	0	
	Demonstrate: If DND brings a set of NVG during the DFE	0	0	0	
M	8.8.3 The AV shall be equipped with a strobe visible to the unaided eye to assist other airspace users to locate the AV during day and night operations. (Visible to 5 km at night in Visual Meteorlogical Conditions with no haze or atmospheric obscurants present.)	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance:	0	0	0	
	Demonstrate:	0	0	0	
M	8.8.4 The visible strobe light fitted shall be controllable from the GCS.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance:	0	0	0	
	Demonstrate:	0	0	0	
	8.9 Aural Detectability	0	0	0	

	Bidder's name: _____	Potential Score	Bidder Self Score	DND Score	ATP Check
	DND Input: System Performance Specification (SPS) Section				
	Bidder Response: Compliance Statement or Proof of Compliance as applicable Bidder's proposal document, page, section/para/sub-para, etc.)				
R	8.9.1 For the conduct of covert reconnaissance and surveillance missions observers on the ground should usually not hear the AV at a slant range of 1,000 m/3,280 ft.	0	0	0	
S	Proof of Compliance:	10	0	0	
	Demonstration:				
	8.9.1 Score: 10 points for demonstrating (within the demo flight program environment limitations) that the noise levels due to the AV Propulsion system, as measured at 30 m from the AV with the AV on the launcher and operating at cruise power settings, does not exceed the values in the sample flight program.				
	8.10 Interoperability	0	0	0	
R	8.10.1 The System should be operated by CDL System Ltd VCS 4586 UAV control system.	0	0	0	
S	Proof of Compliance is only applicable when the system is operated by VCS 4586: If applicable, provide Test Report(s):	20	0	0	
	Demonstration – when applicable, within two (2) years after Contract Award:				
	8.10.1 Score: 20 points for providing acceptable test reports, and demonstrating this capability during the System evaluation demonstration flights.				
M	8.10.2 Within 24 months of Contract award the System shall be tested and certified capable of being operated by CDL System Ltd VCS 4586 UAV control system. (Canada will provide to the Contractor, as Government Furnished Information (GFI), the CDL Systems VCS 4586 development software.)	0	0	0	
	Compliance Statement: YES	0	0	0	
M	8.10.3 Within 24 months of Contract award the System shall be able to hand over control of an aircraft to, and receive control of an aircraft from any CAF GCS that is STANAG 4586, edition 2 compliant and is operating with an appropriate Vehicle Specific Module (VSM) and data link, and if applicable, the appropriate landing/recovery assets.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance: Refer to handover procedures in Operator manual and/or test reports.	0	0	0	
	Demonstration:	0	0	0	
	8.11 Navigation and Position Location	0	0	0	
M	8.11.1 The System shall use the Global Positioning Satellite (GPS) system for primary navigation and positional information.	0	0	0	
	Compliance Statement: YES	0	0	0	

	Bidder's name: _____	Potential Score	Bidder Self Score	DND Score	ATP Check
	DND Input: System Performance Specification (SPS) Section				
	Bidder Response: Compliance Statement or Proof of Compliance as applicable Bidder's proposal document, page, section/para/sub-para, etc.)				
	8.12 Selective Availability/ Anti-Spoofing Module (SAASM) GPS.	0	0	0	
R	8.12.1 The AV should be upgradeable to use a GPS with SAASM or better capability.	0	0	0	
S	Compliance Statement: YES Proof of Compliance: The Compliance Statement or applicable Test Report(s). 8.12.1 Score: 30 points for demonstrating this capability	30	0	0	
	8.13 Transponder	0	0	0	
M	8.13.1 The AV shall be equipped with a transponder. At the minimum the transponder shall include all identification and location capabilities provided by a Mode 3C transponder.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance: Provide references to the appropriate documentation as provided with the proposal.	0	0	0	
R	8.13.2 The AV should be equipped with a Mode 4 or Mode S transponder.	0	0	0	
S	Proof of Compliance: Test report Demonstration: 8.13.2 Score: 20 points for demonstrating this capability	20	0	0	
R	8.13.3 The AV should be upgradable to use the Automatic dependent surveillance-broadcast (ADS-B) transponder system.	0	0	0	
S	Compliance Statement: Demonstration: 8.13.3 Score: 20 points for demonstrating the power and payload capacity to carry and operate a future ADS-B transponder of a size similar to the current transponder.	20	0	0	

	Bidder's name: _____	Potential Score	Bidder Self Score	DND Score	ATP Check
	DND Input: System Performance Specification (SPS) Section				
	Bidder Response: Compliance Statement or Proof of Compliance as applicable Bidder's proposal document, page, section/para/sub-para, etc.)				
	9. GROUND SEGMENT	0	0	0	
	9.1 General	0	0	0	
M	9.1.1 There shall be two (2) variants of the GCS; a. the SGCS installed in an MSVS shelter, suitable for longer range operations from fixed MOB sites. There would normally be a minimum of two (2) or a maximum of three (3) SGCS sets at any operating site; and b. the vehicle installation version, or Mobile GCS (MGCS), capable of highly mobile limited range operations from armoured and administrative vehicles. The MGCS shall be able to operate using 120-240 VAC 50-60 hz power, and from vehicle 24-32 Volt Direct Current (VDC) vehicle power supplies according to MIL-STD 1275D.	0	0	0	
	Compliance Statement: YES	0	0	0	
M	9.1.2 The Contractor SGCS and MGCS system designs, equipment, and installations shall include all computers, transmitters, receivers, cables, data link components, power supplies and necessary related components and software required for the conduct of FUAS operations with the exception of the Government-Supplied Material (GSM) software suites, displays, and installation hardware.	0	0	0	
	Compliance Statement: YES	0	0	0	
	9.1.3 MSVS Shelter	0	0	0	
M	9.1.3.1.1 All Contractor installed components of the SGCS shall be installed within the MSVS shelter office/work space of approximately 4.5 m length, 2.33 m width, and 2.38 m height. There is a 16 Rack Unit space (711 mm/28 inches) available in the 19 inch rack for the installation Contractor equipment.	0	0	0	
	Compliance Statement: YES	0	0	0	
M	9.1.3.1.2 In addition to the installed equipment and applicable shipping cases all SGCS external antennas, associated equipment and cabling shall be securely stored inside the shelter when the shelter is packed and configured for being shipped between operational locations.	0	0	0	
	Compliance Statement: YES	0	0	0	
M	9.1.3.1.3 Where applicable, GSM installation hardware shall be used to install the Contractor supplied GCS equipment.	0	0	0	
	Compliance Statement: YES	0	0	0	
	9.2 Operational Safety	0	0	0	
	9.2.1 Terrain Awareness and Warning System (TAWS)	0	0	0	

	Bidder's name: _____	Potential Score	Bidder Self Score	DND Score	ATP Check
	DND Input: System Performance Specification (SPS) Section				
	Bidder Response: Compliance Statement or Proof of Compliance as applicable Bidder's proposal document, page, section/para/sub-para, etc.)				
M	9.2.1.1 The System shall be equipped with a TAWS. The TAWS should provide visual and audible alarms in the event that the AV violates programmed terrain clearance parameters as a consequence of any instruction issued to the AV by the AV operator, or any situation arising that would result in the AV failing to maintain safe AV-ground separation.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance:	0	0	0	
	Demonstration:	0	0	0	
	9.2.2 Danger/no fly zones	0	0	0	
M	9.2.2.1 The System shall enable the operator to establish operator specified map positional related Danger/No Fly zones.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance:	0	0	0	
	Demonstration:	0	0	0	
M	9.2.2.2 The System shall provide the operator with audible and visible warnings if the aircraft flight plan or operator actions would result in the aircraft entering a Danger/No Fly Zone.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance:	0	0	0	
	Demonstration:	0	0	0	
	9.3 Target tracking	0	0	0	
M	9.3.1 The System shall enable the CAF GCS operators to have the capability to automatically track objects with the camera as the AV independently moves into the correct location.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance:	0	0	0	
	Demonstration:	0	0	0	

	Bidder's name: _____	Potential Score	Bidder Self Score	DND Score	ATP Check
	DND Input: System Performance Specification (SPS) Section				
	Bidder Response: Compliance Statement or Proof of Compliance as applicable Bidder's proposal document, page, section/para/sub-para, etc.)				
M	9.3.2 The System shall be able to automatically track an object moving at ground speeds of up to 80 km/h while the AV is flying into a 30 km/h headwind.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance:	0	0	0	
	Demonstration: (Within limits of ambient environment)	0	0	0	
M	9.3.3 If the capability to automatically track a moving target is not a built in or programmed function conducted automatically on board of the AV the System shall provide a ground based target tracking capability that provides the appropriate command feedback to the AVs. This capability shall be provided for each of the eight (8) shelters based flight control stations, and each of the eight (8) vehicle based MGCS sets.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance:	0	0	0	
	Demonstration:	0	0	0	
	9.4 Flight Data and Mission Recording	0	0	0	
M	9.4.1 The System shall include a flight data recording capability which automatically saves the flight data.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance:	0	0	0	
	Demonstration:	0	0	0	
M	9.4.2 The flight data recorder interface design shall enable the CAF operators to re-play the flight data for data analysis purposes, and to export the data in its native format. If the flight recorder data is not readable by a standard CAF workstation the Contractor shall provide one (1) copy of any software required to play back and analyse the data in a CAF laboratory environment.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance:	0	0	0	
	Demonstration:	0	0	0	

	Bidder's name: _____	Potential Score	Bidder Self Score	DND Score	ATP Check
	DND Input: System Performance Specification (SPS) Section				
	Bidder Response: Compliance Statement or Proof of Compliance as applicable Bidder's proposal document, page, section/para/sub-para, etc.)				
M	9.4.3 Mission Data Removal. In order to quarantine original data for investigation purposes the System shall have removable hard drives that enable the Mission Commanders or System Operators to remove all recordings of imagery, telemetry and metadata without the use of any tool.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance:	0	0	0	
	Demonstration:	0	0	0	
M	9.4.4 Mission Data Storage Capacity. The System shall have the available capacity to record and store a minimum of 100 hours of flight metadata.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance:	0	0	0	
	Demonstration:	0	0	0	
	9.5 AV Operation	0	0	0	
M	9.5.1 The System shall enable the AV Operator to exercise real time control and monitoring of the AV in flight.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance:	0	0	0	
	Demonstration:	0	0	0	
M	9.5.2 The System shall provide the operator station display with AV status monitoring information. (I.E.: Items critical to AV performance such as fuel state, engine, battery, etc.)	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance:	0	0	0	
	Demonstration:	0	0	0	

	Bidder's name: _____	Potential Score	Bidder Self Score	DND Score	ATP Check
	DND Input: System Performance Specification (SPS) Section				
	Bidder Response: Compliance Statement or Proof of Compliance as applicable Bidder's proposal document, page, section/para/sub-para, etc.)				
M	9.5.3 The System shall provide the operator station with operator tools that include: a. Automatic operator alerts for emergencies; and b. Electronic checklists and AV status monitoring.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance:	0	0	0	
	Demonstration:	0	0	0	
R	9.5.4 The operator station should have operator tools that provide Emergency Troubleshooting Checklists on the graphic user interface.	0	0	0	
S	Proof of Compliance:	5	0	0	
	Demonstration:				
	9.5.4 Score: 5 points for demonstrating this capability				
	9.6 Target Location Accuracy	0	0	0	
M	9.6.1 The geo-location position error for an AV operating at up to 30 m/s (58.3 Kts) shall not exceed 10m Spherical Error Probable (SEP) from the position the AVs on board GPS is reporting at that time.	0	0	0	
	Compliance Statement: YES	0	0	0	
M	9.6.2 Target geo-location position error shall not exceed 50m Circular Error Probable (CEP) while the AV is 762 m/2,500 ft above ground and at a slant range of 1,000 m/3,280 ft from the target site.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance:	0	0	0	
	Demonstration:	0	0	0	

	Bidder's name: _____	Potential Score	Bidder Self Score	DND Score	ATP Check
	DND Input: System Performance Specification (SPS) Section				
	Bidder Response: Compliance Statement or Proof of Compliance as applicable Bidder's proposal document, page, section/para/sub-para, etc.)				
R	9.6.3 Target geo-location position standards should be met while the AV is making a single pass past the target area or a single orbit around the target area, with an observation period of no more than 30 seconds.	0	0	0	
S	Proof of Compliance:	20	0	0	
	Demonstration:				
	9.6.3 Score: 20 points for a CEP of 50 m or less for a single pass at least 300 m to the side of the target.				
R	9.6.4 Target geo-location position error should be less than 50 m CEP under the conditions of section 9.6.2	0	0	0	
S	Proof of Compliance:	20	0	0	
	Demonstration:				
	9.6.4 Score: 1 points per 2m improvement in CEP starting at 49 m, to a maximum of 20 points at a 10 m CEP				
	9.7 Image Quality	0	0	0	
M	9.7.1 The imagery as viewed in a GCS display window that matches the applicable camera resolution will be rated using the National Image Interpretability Rating Scale (NIIRS) ratings as defined by the NIIRS at http://www.fas.org/irp/imint/niirs.htm).	0	0	0	
	Compliance Statement: YES	0	0	0	
M	9.7.2 The imagery shall be rated both with the aircraft passing directly overhead of the target with the AV operating at an altitude of 762 m/2,500 ft AGL, and when passing at a slant range of up to 1,000 m/3,280 ft. (The imagery will be assessed as achieving up to the highest resolution rating achieved between the overhead pass and the pass at a slant angle.)	0	0	0	
	Compliance Statement: YES	0	0	0	
M	9.7.3 Under the conditions at section 9.7.2, when using the EO payload, the GCS display shall demonstrate NIIRS 7 quality imagery.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance:	0	0	0	
	Demonstration: Provide the video from the DFE on a DVD or suitable electronic media.	0	0	0	

	Bidder's name: _____	Potential Score	Bidder Self Score	DND Score	ATP Check
	DND Input: System Performance Specification (SPS) Section				
	Bidder Response: Compliance Statement or Proof of Compliance as applicable Bidder's proposal document, page, section/para/sub-para, etc.)				
M	9.7.4 Under the conditions at section 9.7.2, when using the IR payload, the GCS display shall demonstrate NIIRS 7 quality imagery.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance:	0	0	0	
	Demonstration: Provide the video from the DFE on a DVD or suitable electronic media.	0	0	0	
R	9.7.5 Under the conditions at section 9.7.2, when using the EO payload, the GCS display should demonstrate better than NIIRS 7 quality imagery.	0	0	0	
S	Proof of Compliance:	100	0	0	
	Demonstration: Provide the video from the DFE on a DVD or suitable electronic media.				
	9.7.5 Score: 5 points per 0.1 improvement in NIIRS rating above NIIRS 7.0, maximum of 100 points at NIIRS 9.0				
R	9.7.6 Under the conditions at section 9.7.2, when using the IR payload, the GCS display should demonstrate better than NIIRS 7 quality imagery.	0	0	0	
S	Proof of Compliance:	100	0	0	
	Demonstration: Provide the video from the DFE on a DVD or suitable electronic media.				
	9.7.6 Score: 5 points per 0.1 improvement in NIIRS rating above NIIRS 7.0, maximum of 100 points at NIIRS 9.0				
	9.8 Simulator Training Support	0	0	0	
M	9.8.1 For the shelter installed GCS the Contractor shall provide a medium fidelity level simulation capability installed within the allocated rack installation space.	0	0	0	
	Compliance Statement: YES	0	0	0	
M	9.8.1.1 There shall be an easy and reliable physical process for switching between the simulator and the control of live aircraft. This process shall require a physical change of cables or switches that are not accessible from the operator work station. There shall be no possibility that the operator can accidentally disconnect from an aircraft and connect to the simulator while an aircraft is in flight.	0	0	0	
	Compliance Statement: YES	0	0	0	
M	9.8.2 The simulation capability shall provide operators a simulated environment of a selected operational area for training and pre-mission rehearsal purposes, and for practicing emergency drills and System procedures, including EO and IR sensor operations..	0	0	0	
	Compliance Statement: YES	0	0	0	

	Bidder's name: _____	Potential Score	Bidder Self Score	DND Score	ATP Check
	DND Input: System Performance Specification (SPS) Section				
	Bidder Response: Compliance Statement or Proof of Compliance as applicable Bidder's proposal document, page, section/para/sub-para, etc.)				
R	9.8.4 The System should include an operator selection/screening capability to assist CAF units with pre-screening personnel for selection as System operator trainees.	0	0	0	
S	Proof of Compliance:	12	0	0	
	Demonstration:				
	9.8.4 Score: 12 points for demonstrating a simulation based trainee screening capability				
	10. ISR PRODUCTS FORMAT	0	0	0	
M	10.1 The System shall have telemetry data from the AV synchronized to the video in a format that enables the CAF GCS to generate imagery IAW STANAG 4609 edition 3 UAS Local Data Set Table 2 format.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance:	0	0	0	
	Demonstration: Provide video, including telemetry, on a DVD or a suitable electronic media.	0	0	0	
M	10.2 The metadata shall also be accessible for technical investigation purposes via the GCS Local Area Network (LAN) interface or as an extracted data file.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance:	0	0	0	
	Demonstration:	0	0	0	
M	10.3 The metadata time code shall be derived from GPS time.	0	0	0	
	Compliance Statement: YES	0	0	0	
R	10.4 The System should have the capability to generate mosaic, geo-rectified images and maps from the video imagery as it is accumulated and stored.	0	0	0	
S	Proof of Compliance:	15	0	0	
	Demonstration:				
	10.4 Score: 15 points for demonstrating a geo-rectified mosaic image capability acceptable to Canada.				

	Bidder's name: _____	Potential Score	Bidder Self Score	DND Score	ATP Check
	DND Input: System Performance Specification (SPS) Section				
	Bidder Response: Compliance Statement or Proof of Compliance as applicable Bidder's proposal document, page, section/para/sub-para, etc.)				
	11. COMMUNICATIONS	0	0	0	
M	11.1 Any Information Technology (IT) equipment provided with the System shall fully conform to current Ethernet Protocol Standards and USB2, USB 3 standards, enabling the passage and receipt of data via readily available compatible non-proprietary equipment. Applicable Institute of Electrical and Electronic Engineers (IEEE) standards may also be included.	0	0	0	
	Compliance Statement: YES	0	0	0	
M	11.2 Connections to the fibre-optic Local Area Network within the SGCS shall use standard commercial Mechanical Transfer Registered Jack (MT-RJ) connectors.	0	0	0	
	Compliance Statement: YES	0	0	0	
	12. DATA LINK	0	0	0	
	12.1 Encryption	0	0	0	
M	12.1.1 The airborne telemetry data link shall employ AES 256 encryption to provide secure communication over the data and command and control channels to prevent unauthorized viewing of or interference with the command and control data, and the imagery and metadata/telemetry information.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance:	0	0	0	
	Demonstration:	0	0	0	
	12.2 Data Link Line Of Sight (LOS) Range	0	0	0	
M	12.2.1 While using the SGCS the System shall be capable of operating to a Visual Line-of-Sight (VLOS) range of at least 100 km.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance:	0	0	0	
	Demonstration:	0	0	0	

	Bidder's name: _____	Potential Score	Bidder Self Score	DND Score	ATP Check
	DND Input: System Performance Specification (SPS) Section				
	Bidder Response: Compliance Statement or Proof of Compliance as applicable Bidder's proposal document, page, section/para/sub-para, etc.)				
M	12.2.2 Within the SGCS 100 km range, the System shall be able to control the AV and receive uninterrupted telemetry, control, unpixelated imagery, and metadata information (90% of the time over a 5 minutes period) IAW the contracted System Performance Specifications for as long as the SUAV is within the VLOS.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance:	0	0	0	
	Demonstration:	0	0	0	
R	12.2.3 The SGCS should be capable of operating in IAW the specification in 12.2.2 to a VLOS range beyond 100 km. (Up to 185 km/ 100 nautical miles).	0	0	0	
S	Proof of Compliance:	85	0	0	
	Demonstrate:				
	12.2.3 Score: 1 point per full km of demonstrated range capability beyond 100 km to a maximum of 85 points at 185 km				
M	12.2.4 The MGCS shall use a ROVER 6 system for the data link to the aircraft. The ROVER 6 system shall support command and control (LOI 2, LOI 3 and LOI 4), video and metadata in C and/or L and/or S bands. (The ROVER 6 equipment will be provided by Canada.)	0	0	0	
	Compliance Statement: YES	0	0	0	
	12.3 Remote Video Terminal Compatibility	0	0	0	
M	12.3.1 The SUAV data link shall be compatible with the (ROVER 5i and ROVER 6) CAF Remote Video Terminal to correctly display the video and meta data information, including as a minimum the Time Stamp and the Frame Center Latitude and Longitude.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance:	0	0	0	
	Demonstration: Demonstrate with Rover 5i only if the ROVER 5i is provided by DND.	0	0	0	
	12.4 Directional Antenna Control	0	0	0	

	Bidder's name: _____	Potential Score	Bidder Self Score	DND Score	ATP Check
	DND Input: System Performance Specification (SPS) Section				
	Bidder Response: Compliance Statement or Proof of Compliance as applicable Bidder's proposal document, page, section/para/sub-para, etc.)				
M	12.4.1 The ground data link antennae shall automatically track the AV.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance:	0	0	0	
	Demonstration:	0	0	0	
	12.5 Frequency Management	0	0	0	
M	12.5.1 The system data links shall use one or more of the L, S or C Bands.				
	Compliance Statement: YES				
	Proof of Compliance:	0	0	0	
	12.5.2 Canadian Regulations	0	0	0	
M	12.5.2.1 All Radio Frequency equipment used in the SUAS shall comply with the Radio-Communication Act. (See http://laws.justice.gc.ca).	0	0	0	
	Compliance Statement: YES	0	0	0	
M	12.5.2.2 All Radio Frequency equipment used in the System shall comply with the Canadian Radio-Communication Regulations.	0	0	0	
	Compliance Statement: YES	0	0	0	
	12.5.3 Frequency Selection	0	0	0	
M	12.5.3.1 The System shall be capable of frequency selection to allow for regulatory requirements related to frequency allocation in Canada and in NATO coalition operational environments.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance:	0	0	0	
	Demonstration:	0	0	0	

SPS Compliance And Technical Evaluation Matrix
Small Unmanned Aircraft System

	Bidder's name: _____	Potential Score	Bidder Self Score	DND Score	ATP Check
	DND Input: System Performance Specification (SPS) Section				
	Bidder Response: Compliance Statement or Proof of Compliance as applicable Bidder's proposal document, page, section/para/sub-para, etc.)				
M	12.5.3.2 The System shall be capable of frequency selection to allow multiple AV operations in the same airspace without electronic interference between the AVs and/or interference between the GCS sets controlling the AVs.	0	0	0	
	Compliance Statement: YES	0	0	0	
	Proof of Compliance:	0	0	0	
	Demonstration:	0	0	0	
M	12.5.3.3 During pre-launch mission preparations the operator shall be able to change the specific frequencies used within a frequency band without physically changing components.	0	0	0	
	Compliance Statement: YES				
	Proof of Compliance:				
	Demonstration:				
M	12.5.3.4 In Canada the System shall operate using frequencies licensed to DND by Industry Canada for UAV operations in Canada.	0	0	0	
	Compliance Statement: YES				
M	12.5.3.5 For deployed operations outside of Canadian territory the System shall have the capability to operate using frequencies licensed to NATO for the specific deployment locations.	0	0	0	
	Compliance Statement: YES				
	Proof of Compliance:				
	Total Scores	1300	0	0	

APPENDIX 3 TO ANNEX G

CANADIAN ARMY

SMALL UNMANNED AIRCRAFT SYSTEM ACQUISITION (SUAS-A)

STATEMENT OF WORK (SOW)

COMPLIANCE EVALUATION MATRIX

Compliance Statement (CS) /Proof of Compliance References

Where the Bidder input row indicates “CS” the value has been set to (YES) by default. Bidders not conforming or agreeing with this requirement should replace the CS with (NO), the bid will then be deemed to be non compliant.

Where the Bidder input row indicates “POC” the Bidder is required to insert the applicable proposal documentation references where the evaluation team may find the proof of compliance.

Note: Compliance references will include a compliance statement, statement of intent, certificates, physical demonstration, statistical data, compliance details applicable to this SOW, and reports from other customers

Bidder's name: _____

Item No	Section Text / Compliance Statement (CS) / Proof of Compliance References (Bid section/para/sub-para etc)	
1.	GENERAL	
1.4	Outcomes	
1.4.1	The required corresponding outcomes are:	
a.	Products and Services compliant with Canadian Laws and regulations;	
b.	Delivery of airworthiness application supporting documentation;	
c.	Delivery of the required drawings and associated lists and cataloguing information required for equipment delivery to Canada;	
d.	Delivery of operation and maintenance manuals;	
e.	Delivery of the Systems and associated spare parts to sustain operations at two sites in Canada;	
f.	Development and delivery of the required training solution;	
g.	Delivery of Field Service Representative support to training and introducing the SUAS into service;	
h.	Development and delivery of new or proof of satisfactory current management plans for this Acquisition Contract and the related follow-on In-Service Support Contract, including:	
(1)	Project Management Plan;	
(2)	Integrated Logistic Support Plan;	
(3)	Maintenance Plan;	
(4)	Acceptance Test Plan;	
(5)	Training Plan; and	
(6)	Airworthiness Supporting Documentation Management Plan;	
i.	Development and delivery of the in-service support solution to be implemented under the SUAS-S Contract.	
	Compliance Statement:	YES
1.5	Electronic Document Format	
1.5.1	With the exception of ".pdf" files any electronic format document deliverables will be deemed to be non-compliant and will not be accepted as Contract deliverables unless a typical Department of National Defence (DND) workstation can import, read, edit, print and save the document.	
	Compliance Statement:	YES
1.6	Mandatory Criteria Definition:	
1.6.1	A Mandatory requirement as identified by "shall", "must" or "will" indicates that the Contractor is required to complete and deliver the work as stipulated in the applicable section of the SOW. A Contractor is only deemed to be in compliance with the Contract requirements while they are meeting all mandatory criteria.	
	Compliance Statement:	YES
2.	REFERENCES	

Item No	Section Text / Compliance Statement (CS) / Proof of Compliance References (Bid section/para/sub-para etc)	
3.	GENERAL REQUIREMENTS	
3.1.	Technical Performance	
3.1.1	The Contractor shall deliver two (2) Systems that perform at a level which is in compliance with or exceeds the criteria identified in Annex B (SPS).	
	Compliance Statement:	YES
3.2.	General Deliverables	
3.2.1.	The Contractor shall deliver the Systems, including all SUAV aircraft, ground support equipment, information technology equipment and spare parts required to operate the SUAVs from the CAF Ground Control System (GCS) shelter. This includes any special purpose launch and recovery equipment, and any associated items unique to the System.	
	Compliance Statement:	YES
3.2.2.	The Contractor shall deliver all repairable spare parts, special tools and support equipment typically required to sustain the System for at least 150 launch/recovery cycles and 1,000 flight hours of typical training and operations.	
	Compliance Statement:	YES
3.2.3.	The Contractor shall deliver all publications and manuals required for the safe and efficient operation and maintenance of the System.	
	Compliance Statement:	YES
	Proof of Compliance:	
3.2.4.	The Contractor shall deliver all training required for the introduction of the System into CAF service, and for sustaining the System operational capability.	
	Compliance Statement:	YES
	Proof of Compliance:	
3.2.5.	Until the Repair and Overhaul (R&O) services process under a separate contract is established and operating as intended the Contractor shall provide all warranty repair services and maintenance support as necessary to sustain a 90 % availability and a 90 % reliability rate for the System.	
	Compliance Statement:	YES
	Proof of Compliance:	
3.3.	Warranty Administration	
3.3.1.	The Contractor shall provide documentation, which clearly explains the warranty claim process and details a comprehensive guide for obtaining and tracking warranty service procedures.	
	Compliance Statement:	YES
	Proof of Compliance:	

Item No	Section Text / Compliance Statement (CS) / Proof of Compliance References (Bid section/para/sub-para etc)	
3.4.	Hazardous Materials (HAZMAT) and Products	
3.4.1.	The Contractor shall comply with the Hazardous Products Act. This includes the requirement that the Contractor shall provide the required bilingual Material Safety Data Sheets (MSDS) for the shipment of any chemical or material deemed to be HAZMAT.	
	Compliance Statement:	YES
	Proof of Compliance:	
3.4.2.	Treasury Board Hazardous Substance Directive and Canada Labour Code Part II dictate that the least hazardous materials should be used at the workplace. Therefore, the Contractor shall strive to use the least hazardous product that meets the requisite performance requirements, and to avoid the use of controlled products.	
	Compliance Statement:	YES
3.5.	Canadian Transportation of Dangerous Goods Act	
3.5.1.	The Contractor shall comply with the Canadian Transportation of Dangerous Goods Act (http://www.tc.gc.ca/eng/acts-regulations/acts-1992c34.htm) and the applicable Canadian Transportation of Dangerous Goods Regulations (http://www.tc.gc.ca/eng/tdg/safety-menu.htm). This includes the requirement that the Contractor shall provide all required labels for any shipment of dangerous goods.	
	Compliance Statement:	YES
3.6.	Environmental Health and Safety (EHS) Management	
3.6.1.	The Contractor and its Subcontractors shall comply with the DND general safety program as detailed below, when work is performed at government owned facilities:	
a.	A-GG-040-004/AG-001 - General Safety Program - Volume 1, Policy and Program;	
b.	C-02-040-007/TS-001- General Safety Precautions;	
c.	C-02-040-009/AG-001- DND General Safety Standards; and	
d.	Canada Labour Code, Part II.	
	Compliance Statement:	YES
3.6.2.	The Contractor and its Subcontractors shall have an Occupational Health and Safety Management System (OHSMS), which is consistent with the principles presented in Occupational Health and Safety Assessment Series (OHSAS) 18001 at its facilities located in Canada.	
	Compliance Statement:	YES
	Proof of Compliance:	
3.6.3.	The Contractor's and his Subcontractor's activities under the SUAS Acquisition Contract and the associated In-Service Support Contract shall fully comply with the Canadian Environmental Protection Act and relevant environmental protection statutes and regulations whenever and wherever the activities are conducted in Canada.	
	Compliance Statement:	YES
	Proof of Compliance:	

Item No	Section Text / Compliance Statement (CS) / Proof of Compliance References (Bid section/para/sub-para etc)	
3.7.	Laser	
3.7.1.	The Contractor shall update as required the hazard evaluation on all laser types associated with the materiel or services provided under the Acquisition Contract IAW CFTO C-02-040-002/TS-001 (entitled Laser Safety). The American National Standard for Safe Use of Lasers (ANSI Z136 latest edition) is to be used for the preparation of the information.	
	Compliance Statement:	YES
	Proof of Compliance:	
4.	PROGRAM MANAGEMENT SERVICES	
4.1.	Project Management Plan (PMP)	
4.1.1.	The Contractor shall submit a PMP IAW Contract Data Requirements List (CDRL) PM001, Data Item Description (DID) PM-001, identifying the Contractor's Project Organizational Structure, contact names and information, and a Work Breakdown Structure (WBS) for tasks required to deliver the Work, including a Master Schedule and Milestones.	
	Compliance Statement:	YES
	Proof of Compliance:	Milestone list and outline PMP submitted for tasks included with RFP as part of bid proposal.
4.1.2.	The Contractor shall provide program management, including a Program/Project Manager (PM) and any support staff necessary to manage the Contractor work under this program. Canada will not provide office/work space for the Program Manager and the associated support staff.	
	Compliance Statement:	YES
4.1.3.	The Contractor shall manage the project IAW the approved PMP.	
	Compliance Statement:	YES
4.2.	Meetings	
4.2.1.	The Contractor shall provide support and assistance for Contract Progress Review Meetings (PRMs).	
	Compliance Statement:	YES
4.2.2.	PRMs shall alternate between the Contractor's facilities and Canada's facilities in the region of Ottawa, Canada, or such other reasonable location as Canada requests in writing.	
	Compliance Statement:	YES
4.2.3	Videoconferencing and teleconferencing should be used when practical.	
	Compliance Statement:	YES

Item No	Section Text / Compliance Statement (CS) / Proof of Compliance References (Bid section/para/sub-para etc)	
4.2.4	The Contractor shall provide appropriate representation at Contract PRMs, to be held with Canada at the following designated intervals: a. Initial program Kick-off meeting at the Contractor facility within four (4) weeks of Contract Award, b. PRMs at three month intervals until Full Operational Capability (FOC) is achieved; c. Annual PRMs for the duration of the Contract, d. Additional PRMs at Contractor facility if or when required, and e. Weekly tele-conferences if deemed necessary by Canada.	
	Compliance Statement:	YES
4.2.5	When the Contractor has more than 48 hours lead time before a meeting, the Contractor shall provide a one (1) page meeting agenda to the TA.	
	Compliance Statement:	YES
4.2.6	The Contractor shall provide minutes for each meeting, videoconference and tele-conference IAW CDRL PM002, DID PM-002.	
	Compliance Statement:	YES
4.2.7	During each meeting the Contractor shall provide to the TA, in the appropriate electronic format and media, copies of any Presentation Packages as presented at the meeting.	
	Compliance Statement:	YES
4.2.8	The draft electronic format presentations for Quarterly PRMs shall be delivered one week prior to the meeting	
	Compliance Statement:	YES
4.3.	Reports	
4.3.1.	The Contractor shall submit progress Reports IAW CDRL PM003, DID PM-003 as and when required.	
	Compliance Statement:	YES
4.4.	Risk Management	
4.4.1.	The Contractor shall prepare a Contractor Risk Management Plan (CRMP), delivered IAW CDRL PM004, DID PM-004, outlining measures to ensure that equipment and services are delivered on time, and that services and System support are maintained at an acceptable level throughout the period of the Contract.	
	Compliance Statement:	YES
	Proof of Compliance:	Draft Contractor RMP based on RMP for existing customers.
4.4.2.	The CRMP shall include appropriate measures for the management of risks associated with Additional Work Requirement (AWR) tasks and Technical Investigation and Engineering Support (TIES) tasks likely to be initiated under this Contract.	
	Compliance Statement:	YES

Item No	Section Text / Compliance Statement (CS) / Proof of Compliance References (Bid section/para/sub-para etc)	
	Proof of Compliance:	
4.5.	Task Management	
4.5.1.	The Contractor shall only undertake work not already identified within this SOW after receipt of an appropriate Contract Amendment delivered by the Contract Authority (CA) or a DND 626 provided by the CA or by the Requisition Authority (RA) if the work is within the RA's spending authority.	
	Compliance Statement:	YES
	Proof of Compliance:	
5.	AIRWORTHINESS MANAGEMENT	
5.1.	General	
5.1.1.	For the SUAS procurement and the associated In-Service Support Contract, the DND Airworthiness program is implemented by requiring that the Contractor shall perform the airworthiness-related tasks defined in the SOW.	
	Compliance Statement:	YES
5.2.	Technical Airworthiness Scope	
5.3.	Technical Airworthiness Clearance (TAC)	
5.3.1.	The Contractor, through provisions with the SUAS Original Equipment Manufacturer (OEM) if required, shall provide the TA with the support required for obtaining TAC, as defined in this SOW.	
	Compliance Statement:	YES
5.4.	SUAS Special Type Certificate (SSTC)	
5.4.1.	General	
5.4.1.1.	An SSTC will be issued by the TAA when it has been clearly determined that the SUAS design is acceptably safe to operate within its defined roles, environment and limitations. This assertion will be developed through a Safety Case (SC) that will be built upon the following premises:	
a.	The baseline SUAS design has been previously authorized for operation by a government or military airworthiness authority acceptable to the DND airworthiness authority;	
b.	The SUAS design is defined, and has completed verification;	
c.	The SUAS has been developed through processes that are mature, appropriate and have been applied across the board;	
d.	The safety has been appropriately addressed when considering systematic design influences such as system integration, software, and environment; and	
e.	The residual risk associated with identified SUAS hazards has been defined and accepted by DND.	
	Compliance Statement:	YES
5.4.2.	SUAS Design Maturity	

Item No	Section Text / Compliance Statement (CS) / Proof of Compliance References (Bid section/para/sub-para etc)	
5.4.2.1.	The Contractor shall propose a SUAS which has had its baseline and/or current design, previously authorized for operation by a government or military airworthiness authority acceptable to the DND airworthiness authority. The System overview, design maturity claim substantiation, previous flight authorization information and answers to specific operation questions shall be provided within the Product Description Package that the Contractor shall provide IAW CDRL AW001, DID AW-001.	
	Compliance Statement:	YES
	Proof of Compliance:	A comprehensive Product Description Package is required for Airworthiness assessment.
5.4.2.1.1.	The Product Description Package shall include information stating the expected average life cycle for major components of the System. This shall specifically include launch/recovery cycles, or operating hours if applicable, for the launch/recovery system, the airframe, any included payloads, aircraft batteries, the engine and propulsion system, and any other critical assets with a service life defined in hours or duty cycles.	
	Compliance Statement:	YES
5.4.2.2.	The System either:	
a.	shall be part of a Unmanned Aircraft System (UAS) that is already qualified, certified or approved for flight operations by an Australian, Canadian, UK or US military airworthiness agency or civilian regulatory body, or	
b.	shall have documentation for proof of system design and system support standards for Canada to determine if the System history adequately supports Canada's risk assessment process and the application for airworthiness required to obtain flight authorization for CAF operational use.	
	Compliance Statement:	YES
	Proof of Compliance:	
5.4.2.3.	Heavy Fuel Engine (HFE) Maturity	
5.4.2.3.1.	The HFE should have accumulated at least 1,200 hours of flight operations. If the current configuration of the HFE has not accumulated at least 1,200 hours of flight operations the Contractor shall provide a detailed description of the engine development program. This shall include descriptions of the ground testing program and flight testing program. The details shall clearly indicate all specific components replaced or modified to convert any earlier design of the specific engine during the most recent 1,200 flight hours to develop the current HFE design.	
	Compliance Statement:	YES
	Proof of Compliance:	
5.4.3.	System Safety Assessment (SSA) / Functional Hazard Assessment (FHA)	
5.4.3.1.	If the SSA and the FHA, or equivalent documents produced in support of the SUAS design exist, the Contractor shall provide those documents IAW CDRL AW002, DID AW-002.	
	Compliance Statement:	YES

Item No	Section Text	
	Compliance Statement (CS)	
	Proof of Compliance References (Bid section/para/sub-para etc)	
	Proof of Compliance:	Draft SUAS Safety Case submission with risk analysis (if it already exists). Flight SafetyProgram Manual (if it already exists)
5.4.4.	SUAS Flight Manual	
5.4.4.1.	The Contractor shall provide an SUAS Flight Manual for approval by Canada that contains the information that is necessary for safe operation as related to the design, operating or handling characteristics. The Flight Manual shall be prepared IAW CDRL AW003, DID AW-003	
	Compliance Statement:	YES
	Proof of Compliance:	Submit a SUAS Flight or Operator Manual for review. The documentation shall include system operating instructions, operating limitations, emergency procedures and checklists.
5.4.5.	SUAS Special Type Certificate Data Sheet (SS/TCDS)	
5.4.5.1.	The Contractor shall provide an SS/TCDS. The SS/TCDS shall be prepared IAW CDRL AW004, DID AW-004.	
	Compliance Statement:	YES
	Proof of Compliance:	Airworthiness Clearance supporting documentation provided for airworthiness assessment.
5.4.6.	SUAS Established Safety Record	
5.4.6.1.	The Contractor shall provide the in-service data required to demonstrate the safety record of its proposed SUAS. The in-service data shall be prepared IAW CDRL AW005, DID AW-005.	
	Compliance Statement:	YES
	Proof of Compliance:	Airworthiness Clearance supporting documentation provided for airworthiness assessment.
5.4.7.	Type Design Examination (TDE)	

Item No	Section Text / Compliance Statement (CS) / Proof of Compliance References (Bid section/para/sub-para etc)	
5.4.7.1.	In support of the initial TDE activities, the Contractor shall establish provisions with the SUAS OEM, to allow Airworthiness Authority specialists full access to:	
a.	OEM Engineering specialist support (estimated at 200 engineering man-hours plus associated administrative support);	
b.	OEM Engineering, Technical and System Safety data (including items such as a System Safety Assessment (SSA) and Functional Hazard Assessment (FHA)) supporting the proposed Type Design, and associated verification activities;	
c.	OEM facilities, including office space to conduct meetings and interviews;	
d.	OEM Records and reports supporting the Quality and Configuration Management Systems;	
e.	OEM organizational processes, procedures and instructions related to the design, development, and tests; and	
f.	Operator`s Handbook(s) and Checklists.	
	Compliance Statement:	YES
5.5.	SUAS Aeronautical Product	
5.5.1.	General	
5.5.1.1.	The DND Airworthiness Program requires that the Contractor shall produce each SUAV and the SUAS as a whole in conformance with the established type design, and that each SUAV shall be registered on the DND Military Aircraft Register and identified with appropriate markings.	
	Compliance Statement:	YES
5.5.2.	SUAS Flight Authority	
5.5.2.1.	Prior to transfer of title of each SUAS to Canada, the Contractor shall perform all actions required for obtaining an aircraft registration and flight authority, from the regulatory authority governing the Contractor's operations, such that the SUAV can be flown for all applicable testing and acceptance flights.	
	Compliance Statement:	YES
5.5.3.	SUAV Aircraft Identification Markings	
5.5.3.1.	The Contractor shall prepare and submit for approval, SUAV Identification Markings Drawings IAW CDRL AW006, DID AW-006.	
	Compliance Statement:	YES
	Proof of Compliance:	Draft images showing proposed locations for required markings.
5.5.3.2.	Canada will maintain the aircraft registration for each individual SUAV on the DND Military Aircraft Register IAW the Aeronautics Act requirements. The contractor shall provide Canada the serial numbers of all the SUAS aircraft scheduled for delivery. On receipt of the aircraft serial number information, Canada will assign registration numbers to each aircraft.	
	Compliance Statement:	YES
5.5.4.	Certificate of Conformance (CoC)	

Item No	Section Text / Compliance Statement (CS) / Proof of Compliance References (Bid section/para/sub-para etc)	
5.5.4.1.	The Contractor shall prepare and submit for each SUAS and for each individual SUAV a CoC prepared IAW CDRL AW007, DID AW-007 for TAA approval.	
	Compliance Statement:	YES
	Proof of Compliance:	Airworthiness Clearance supporting documentation provided for airworthiness assessment.
5.6.	In-Service Support	
5.6.1.	General	
5.6.1.1.	The validity of the TAC issued by DND is conditional on the continued airworthiness of the contracted services and associated equipment used to fulfil the contractual requirements. The contractor shall be required to provide DND with a reasonable assurance that the level of safety can be maintained for the duration of the contract and option periods.	
	Compliance Statement:	YES
5.6.2.	Airworthiness Management Plan (AMP)	
5.6.2.1.	The contractor shall produce an AMP IAW CDRL AW008, DID AW-008. Once this plan is approved by Canada, the contractor shall meet the requirements of this plan in order to maintain the TAC of the SUAVs and the SUAS as a whole. Whenever there are applicable changes that affect Canada's SUAS, the contractor shall revise this plan to reflect changes to ISS concepts, and seek TAA approval.	
	Compliance Statement:	YES
	Proof of Compliance:	Draft: Airworthiness Clearance supporting documentation provided for airworthiness assessment.
5.6.3.	Technical Airworthiness Authority Oversight	

Item No	Section Text / Compliance Statement (CS) / Proof of Compliance References (Bid section/para/sub-para etc)	
5.6.3.1.	The contractor shall provide access to contractor facilities to perform the initial in-service support system evaluation and any audits, review or evaluations conducted during in-service SUAS operations. Where the TAA identifies that an audit, review, or evaluation is required, the following support will be needed from the organization being assessed:	
a.	On-site support to the audit team, including office space to conduct meetings and interviews;	
b.	Contractor Engineering specialist support (estimated at 128 engineering man-hours plus associated administrative support):	
c.	Access to qualification and authorization files of staff supporting the SUAS;	
d.	Access to work orders and other technical data generated within the organization supporting the SUAS;	
e.	Access to engineering and technical information used in support of the continued airworthiness of the SUAS;	
f.	Access to the organizations records and reports that support the Quality Management System registration;	
	Access to organizational manuals, procedures and instructions used to support the SUAS;	
g.	Technical and management staff to support DND auditors; and	
h.	Preparation and implementation of Corrective Action Plans, when required, that are acceptable to the TAA.	
i.	Compliance Statement:	YES
5.6.4.	Engineering Support Services	
5.6.4.1.	The Contractor shall have established provisions with the SUAS OEM, through a support contract, to ensure access to engineering support services throughout the contract duration and for option years.	
	Compliance Statement:	YES
5.6.4.2.	To maintain the System suitability for certification or flight authorization within the terms specified in or associated with the SOW, the Contractor shall submit documentation to Canada that demonstrates satisfactory proof of the design, production and quality assurance processes. The information shall be conformant to ISO 9001:2008 Quality Management System Requirement and ISO/IEC 90003 Software Engineering - Guidelines for the application of ISO 9001:2000, to computer software.	
	Compliance Statement:	YES
	Proof of Compliance:	
5.6.5.	Operational Airworthiness Oversight	
5.6.6.	Airworthiness Manager	
5.6.6.1.	The Contractor shall have and shall identify an airworthiness manager that is the point of contact for all airworthiness related problems. This person shall be the point of contact for reaching the OEM for airworthiness issues.	
	Compliance Statement:	YES
6.	SYSTEM ENGINEERING	
6.1.	General System Requirements	
6.1.1.	System Engineering and Airworthiness	

Item No	Section Text / Compliance Statement (CS) / Proof of Compliance References (Bid section/para/sub-para etc)	
6.1.1.1	The Contractor's System Engineering services provided to Canada under this program shall focus on obtaining and sustaining Canada's airworthiness and flight authorization requirements.	
	Compliance Statement:	YES
6.1.1.2	In this context, the Contractor shall employ system engineering, testing and production procedures that fully comply with the Annex B (SPS) requirements and standards of this SOW.	
	Compliance Statement:	YES
6.2.	System Integration	
6.2.1.	With the exception of the equipment already installed in the Stationary GCS (SGCS) and the ROVER 6 equipment provided for the Mobile GCS (MGCS) the Contractor shall :	
a.	provide and install all equipment required for the eight (8) SGCS sets (I.e.: Seven (7) ISO shelter installations and one (1) classroom installation); and	
b.	provide eight (8) MGCS sets (I.e.: the GCS computer and software, and any additional components required to connect to the ROVER 6 equipment supplied by Canada. This does not include vehicle installation mounting hardware for specific CAF vehicles.)	
	Compliance Statement:	YES
6.2.2.	Installation Systems Design	
6.2.2.1.	Canada will provide one Medium Support Vehicle System (MSVS) shelter with the applicable installation hardware (including Computer Displays/Monitors, Uninterruptible Power Supply, 19" Rack and selected Work Station Interface items) and software to the Contractor as early as is practicable after Contract award. Within the shelter the following protocols shall be used:	
a.	Local area network connections shall use standard commercial Mechanical Transfer Registered Jack (MT-RJ) connectors for fibre connections;	
b.	All DND Universal Serial Bus (USB) equipment will use 4 pin USB "A" connections. Contractor equipment should also use USB "A" connectors. Contractor supplied equipment shall meet USB-2 or USB-3 standards;	
c.	The shelter also includes a fibre-optic network and fibre-optic switches, which the Contractor shall use to support the communications requirements of the Contractor installed System computers; and	
d.	The video monitors use DisplayPort connectors.	
	Compliance Statement:	YES
6.2.2.2	The Contractor shall complete a prototype system integration design for the shelter installations within 45 calendar days of receipt of the GSM. The prototype SGCS shall be used for the completion of System trials and System Acceptance Testing prior to System acceptance and delivery.	
	Compliance Statement:	YES
6.2.2.3	The Contractor shall complete the MGCS testing and certification, and applicable ROVER 6 compatibility and interoperability testing, within 150 calendar days of receipt of the applicable GSM.	
	Compliance Statement:	YES
6.2.3.	Shelter System Production	
6.2.3.1.	A total of seven (7) of the shelter versions of the SGCS shall be installed in MSVS shelters.	

Item No	Section Text Compliance Statement (CS) Proof of Compliance References (Bid section/para/sub-para etc)	
	Compliance Statement:	YES
6.2.3.2.	The eighth (8th) shelter version of the SGCS shall be installed in a classroom facility at Canadian Forces Base (CFB) Gagetown, Oromocto, New Brunswick.	
	Compliance Statement:	YES
6.3.	Technical Issue Resolution	
6.3.1.	The Contractor shall, on an as required basis, resolve any identified technical or Contractor initiated procedural problems with the original contracted baseline System capability.	
	Compliance Statement:	YES
6.3.2.	All Technical Problems identified by DND will be entered in the Defence Resource Management Information System (DRMIS), screened by DND maintenance organization management or the designated release authority for accuracy and completeness, and then forwarded to the TA. The TA will determine if Contractor assistance is required to resolve the technical problem. If required the Contractor shall provide technical advice and if required engineering support in the form of any system engineering tasks which must be executed to resolve technical issues that have arisen.	
	Compliance Statement:	YES
6.3.3.	Technical issue resolution expected to be conducted by the Contractor shall include designing, developing, integrating, manufacturing, installing, testing, qualifying, certifying and supporting the contracted baseline capability as per the specifications and scope of the Contract or as changed by any completed tasks and approved configuration changes in effect at the time a problem is identified.	
	Compliance Statement:	YES
6.3.4.	The Contractor shall not be liable for the cost of resolving technical issues or procedural problems that are the result of changes to Canada's decisions and actions after the System is accepted and has received airworthiness approval for operations. Any such changes shall only be undertaken under an authorized contract task issued to the Contractor by Canada.	
	Compliance Statement:	YES
6.4.	Payload Integration - Interface Control Documents (ICD)	
6.4.1.	The Contractor shall identify the characteristics and performance specifications of any additional or special purpose payloads available for the System.	
	Compliance Statement:	YES
6.4.2.	The Contractor shall provide an ICD describing the specific information requirements from the SPS IAW CDRL SE001, DID SE-001.	
	Compliance Statement:	YES
	Proof of Compliance:	
6.4.3.	If tasked by Canada, the Contractor shall provide any applicable ICD and associated payload and air vehicle metadata in support of any Government Furnished Equipment (GFE) payload and other payloads integration/testing tasks IAW CDRL SE001, DID SE-001.	
	Compliance Statement:	YES
6.5.	Request for Deviations/Waivers	

Item No	Section Text Compliance Statement (CS) Proof of Compliance References (Bid section/para/sub-para etc)	
6.5.1.	The Contractor shall observe standard CAF practices for any temporary or permanent change from baseline System specifications for new System components developed and placed in service on equipment used for this contract.	
	Compliance Statement:	YES
6.5.1.1.	The Contractor shall submit a Request for Deviation IAW CDRL SE002, DID SE-002 when specific replacement or repaired components will not meet the contracted performance specifications for a specific period of time.	
	Compliance Statement:	YES
6.5.1.2.	The Contractor shall submit a Request for Waiver IAW CDRL SE002, DID SE-002 when a proposed permanent change will affect the System compliance to Annex B (SPS).	
	Compliance Statement:	YES
6.6.	Configuration Management (CM)	
6.6.1.	General: It is Canada's intent that the System Original Equipment Manufacturer (OEM) shall retain responsibility for CM of the System as a portion of the OEM's ongoing fleet CM program for the purposes of maintaining airworthiness certification/authorization.	
	Compliance Statement:	YES
6.6.1.1.	The Contractor shall clearly identify any configuration items changed to produce the version of the AV proposed to Canada. Canada will have the option of accepting the proposed changes, or adopting the specification and configuration in use for the other aircraft supported by the OEM.	
	Compliance Statement:	YES
6.6.2.	The Contractor shall be responsible for CM IAW CDRL SE003, DID SE-003 for the System, and as a minimum has a configuration plan in place that meets or exceeds the standards of D-01-002-007/SG-001.	
	Compliance Statement:	YES
	Proof of Compliance:	Submit draft. Draft shall reflect recognized ISO and QA standard configuration management processes the Contractor shall already have in place for the UAS .
6.6.3.	The Contractor shall provide adequate documented evidence of the Contractor's CM Plan(s) IAW CDRL SE003, DID SE-003.	
	Compliance Statement:	YES
	Proof of Compliance:	Submit draft. Draft shall reflect recognized ISO and QA standard configuration management processes the Contractor shall already have in place for the UAS.
6.6.4.	Any Contractor-initiated changes to the configuration of the System as delivered (accepted baseline) necessitated by failure to maintain performance IAW the Annex B (SPS), shall be to the account of the Contractor for a period of one (1) year from completion of initial System and spares deliveries. This includes replacement of delivered repair parts, spares, and consumables, modifications to Systems, and any resulting changes required to Contractor provided publications.	

Item No	Section Text Compliance Statement (CS) Proof of Compliance References (Bid section/para/sub-para etc)	
	Compliance Statement:	YES
6.6.5.	The Contractor shall not introduce configuration or system support changes affecting airworthiness to Systems providing ISR capabilities to Canada without the prior approval of the TA and DND's airworthiness authority.	
	Compliance Statement:	YES
6.6.6.	The Contractor shall provide adequate service history, design and test data or other information as appropriate to achieve and maintain airworthiness approval and flight authorization for any improvements or applicable additions to the System.	
	Compliance Statement:	YES
	Proof of Compliance:	
6.6.7.	The Contractor shall recommend for DND approval, which items from the System are to be designated as configuration items, using criteria presented in the Contractor's CM Plan. Once accepted by the TA, CIs will be identified in the DRMIS master data file developed within DND.	
	Compliance Statement:	YES
6.6.8.	The Contractor shall assign unique identifiers to hardware and software items and their associated configuration documentation;	
	Compliance Statement:	YES
6.6.9.	The Contractor shall ensure the unique identifiers are marked on hardware, on software media, embedded in software code and electronically embedded in alterable firmware;	
	Compliance Statement:	YES
6.6.10.	The Contractor shall identify the configuration baselines that will be used to manage the product configuration, and subsequently use these baselines to maintain configuration control;	
	Compliance Statement:	YES
6.6.11.	The Contractor shall determine (and subsequently prepare) the configuration documentation needed to define each configuration baseline for each type of configuration item. Such documentation will progressively define functional requirements, design constraints, interface characteristics, test requirements and other technical data required in the project;	
	Compliance Statement:	YES
6.6.12.	The Contractor shall have an engineering release system for configuration documentation, and use that system to issue any required material change notices IAW D-01-100-215/SF-000, and the correct and current configuration documentation for use by functional activities (such as test and evaluation, maintenance planning and production); and	
	Compliance Statement:	YES
	Proof of Compliance:	
6.6.13.	The Contractor shall maintain traceability between product units and their respective manuals, warranties and life cycle support obligations.	
	Compliance Statement:	YES

Item No	Section Text / Compliance Statement (CS) / Proof of Compliance References (Bid section/para/sub-para etc)	
6.7.	Obsolescence Management	
6.7.1.	The Contractor shall maintain System airworthiness standards and the applicable documentation for the baseline System for the term of the Contract by implementing any necessary obsolescence management and resulting technology updates.	
	Compliance Statement:	YES
6.7.2.	Additional system engineering support for equipment not included in the original contracted System baseline shall be separately negotiated as and when required for the applicable equipment customization and testing.	
	Compliance Statement:	YES
6.8.	Frequency Management and Supportability	
6.8.1.	If the Radio Equipment for the System is not already certified for use in Canada, the Contractor shall complete and submit the form DND 552, Application For Frequency Supportability, IAW CDRL SE004, DID SE-004, or the United States Department of Defence equivalent, accompanied by supporting documentation to enable Canada to assess and initiate the appropriate frequency allocation coordination for the conduct of SUAV operations. The Contractor shall then provide updates to the documents if any changes that affect the frequency spectrum requirements are made to the System during the period of the Contract. There shall be separate forms covering each of the following sub-systems for the aircraft and the GCS: a. Transmitter Equipment Characteristics, b. Receiver Equipment Characteristics, and c. Antenna Equipment Characteristics.	
	Compliance Statement:	YES
	Proof of Compliance:	For any components not already licensed for operation in Canada, draft submission with proposal using DND Form 552 or the US DoD equivalent.
6.8.2.	The Contractor shall then provide updates to the documents if any changes that affect the frequency spectrum requirements are made to the System during the period of the Contract.	
	Compliance Statement:	YES
6.8.3.	If the Contractor chooses to use frequencies for which DND is unable to obtain the required licenses the Contractor shall, at its own cost, implement a solution acceptable to Canada within 75 calendar days of contract award.	
	Compliance Statement:	YES
6.9.	System Evaluation and Acceptance Testing	
6.9.1.	The Contractor shall provide an Acceptance Test Plan (ATP) IAW CDRL SE005, DID SE-005 that includes all elements of the flight demonstration program identified in Canada's evaluation criteria and all readily demonstrated mandatory and rated capabilities claimed by the Contractor.	
	Compliance Statement:	YES

Item No	Section Text	
	Compliance Statement (CS)	
	Proof of Compliance References (Bid section/para/sub-para etc)	
	Proof of Compliance:	Draft Acceptance Test Plan submitted.
6.9.2.	The demonstration shall be at a location mutually acceptable to the Contractor and Canada.	
	Compliance Statement:	YES
6.10.	System Acceptance Testing	
6.10.1.	System Acceptance Testing IAW the approved ATP shall be performed by the contractor and approved by Canada prior to System delivery.	
	Compliance Statement:	YES
6.10.2.	The Contractor shall inform Canada of the acceptance testing dates and locations early enough to enable Canada to coordinate the required visit clearances and cost effective travel and accommodations.	
	Compliance Statement:	YES
6.10.3.	The AVs shall, within the limits of current environmental conditions, be subject to 100% inspection and testing.	
	Compliance Statement:	YES
6.10.4.	All remaining equipment shall be subject to random testing. If the random testing indicates a failure to meet specific criteria then 100% equipment Acceptance Testing shall be required to determine the scope of any delivered equipment performance issues.	
	Compliance Statement:	YES
7.	INTEGRATED LOGISTICS SUPPORT (ILS)	
7.1.	General	
7.1.1.	The Contractor shall provide all necessary documentation mandated by Canada to catalogue and inventory the complete System, and to complete the System deliveries to the Canadian Forces Supply System (CFSS). This includes all consumable items, all repairable parts and assemblies, all Special Tools and Test Equipment (STTE), and any applicable material necessary to keep the System capability in operation.	
	Compliance Statement:	YES
	Proof of Compliance:	
7.2.	ILS Plan	
7.2.1.	The Contractor shall provide the ILS Plan IAW CDRL ILS001, DID ILS-001.	
	Compliance Statement:	YES
	Proof of Compliance:	

Item No	Section Text / Compliance Statement (CS) / Proof of Compliance References (Bid section/para/sub-para etc)	
7.2.2.	The ILS Plan shall be based on the general support concept and concept of operations for the Systems.	
	Compliance Statement:	YES
	Proof of Compliance:	
7.2.3.	The ILS Plan shall provide detailed Contractor maintenance and support concepts, training and maintenance activities, Logistics Support Analysis (LSA) methodology used to develop the support concept, the applicable Recommended Spare Parts List (RSPL), and the stock levels it will recommend to ensure the availability requirement are achieved, IAW Annex B (SPS).	
	Compliance Statement:	YES
	Proof of Compliance:	
7.2.3.2	The DRMIS is a complementary system that provides the 1st and 2nd line maintenance and supply support to the SUAS. As DRMIS will be the system of record for maintenance and supply data within DND, the Contractor will define what existing data elements are required from DRMIS to support the SUAS Life Cycle Material Management responsibilities assigned to the Contractor.	
	Compliance Statement:	YES
7.2.3.4	The Contractor on site at the Commodity Point at CFB Gagetown shall complete and submit locally produced forms required to provide applicable information to the CFB Gagetown personnel responsible for updating the DRMIS records.	
	Compliance Statement:	YES
7.3.	Provisioning Documentation	
7.3.1.	The Contractor shall provide provisioning documentation IAW CDRL ILS002, DID ILS-002, including a Provisioning Parts Breakdown (PPB) as per D-01-100-214/SF-000, Specification for Preparation of Provisioning Documentation for CAF Equipment.	
	Compliance Statement:	YES
7.3.2.	If appropriate provisioning documentation already exists the Contractor should provide provisioning documentation that supports the RSPL with its proposal.	
	Compliance Statement:	YES
	List Provisioning Documentation provided, if applicable.	
7.4.	Initial Fielding and Support Assumptions	
7.4.1.	The Contractor shall deliver the Systems and spare parts for the training flights for the CAF instructors and operators, and all required training aids and training materials, no later than 120 days after Contract award, and at least 60 calendar days before the start of training.	
	Compliance Statement:	YES
7.4.2.	The Contractor shall deliver all remaining equipment and establish any required ILS services capability IAW an agreed schedule, which enables Canada to conduct all required training for 12 CAF Instructors, and to complete the System operator training and equipment distribution required to achieve IOC within 12 months after Contract award. This shall include the scheduling of instructors to supervise CAF training.	

Item No	Section Text	
	Compliance Statement (CS)	
	Proof of Compliance References (Bid section/para/sub-para etc)	
	Compliance Statement:	YES
7.4.3.	The Contractor shall deliver the first shelter installed SGCS to Canada on the earliest of either: 90 calendar days after receipt of the applicable Government Supplied Material (GSM) from Canada, or 150 days after Contract award. Delivery of this SGCS shall be accompanied by delivery of an appropriate quantity of spare parts and any associated support kit or required to support the SGCS.	
	Compliance Statement:	YES
7.4.4.	The Contractor shall deliver all remaining equipment and establish any required Integrated Logistics Support (ILS) services capability IAW an agreed schedule which enables Canada to conduct all required training and equipment distribution and to achieve FOC within 15 months after Contract award.	
	Compliance Statement:	YES
7.4.5.	Once an item enters the Canadian Forces Supply System (CAFSS), the item will be managed using DRMIS, DND's inventory management program.	
	Compliance Statement:	YES
7.5.	Initial Provisioning Documentation	
7.5.1.	Within 60 days after Contract Award, the Contractor shall provide all necessary documentation mandated by Canada to catalogue and inventory the System into the CFSS.	
	Compliance Statement:	YES
7.5.2.	The Contractor shall provide all consumable items, all repairable spare parts and assemblies, all STTE, and any applicable material necessary for the System Operators and any required Support Technicians to maintain System availability IAW Annex B (SPS).	
	Compliance Statement:	YES
7.5.3.	Complete aircraft with payloads shall be shipped and stored in re-usable shipping containers.	
	Compliance Statement:	YES
7.5.4.	The Contractor shall be prepared to hold DND owned repairable assemblies on an account to be established after Contract award. These repairable items will be selected from the Contractor RSPL.	
	Compliance Statement:	YES
7.5.5.	The Contractor shall also hold its own consumable items, spare parts and assemblies as required to support the SUAS program on its own accounts. Items from this Contractor owned stock will be sold to Canada on an as required basis to replace items consumed, lost or destroyed during System operations. . The Contractor has full responsibility for determining its own stock levels for consumables, spare parts and assemblies required to sustain the 90% system availability requirement	
	Compliance Statement:	YES
7.5.6.	Together the DND owned assets and the Contractor owned assets form a pool of equipment, spare parts and consumable items ready to fill demands from unit operators. Following approval from the TA and the RA or CA IAW the appropriate funding approval limitation all procurement demands shall be filled within an appropriate time as needed to sustain System availability at or above the required 90 % minimum.	
	Compliance Statement:	YES
7.6.	Drawings, Associated Lists and Cataloguing	

Item No	Section Text / Compliance Statement (CS) / Proof of Compliance References (Bid section/para/sub-para etc)	
7.6.1.	The Systems, and all consumable items, spare parts, and reusable shipping/storage containers that will be held by Canada in support of System operation, training and maintenance activity, shall be appropriately catalogued.	
	Compliance Statement:	YES
7.6.1.1.	Where the item has already been catalogued under a NATO Stock Number (NSN), the Contractor shall only be required to provide information which identifies the items to Canada's satisfaction and enables Canada to adopt the existing NSN.	
	Compliance Statement:	YES
	Proof of Compliance:	
7.6.1.2.	Where items have not already been catalogued the Contractor shall provide cataloguing documentation and information IAW CDRL ILS003, DID ILS-003, as required by Canada to enable Canada to catalogue the items.	
	Compliance Statement:	YES
	Proof of Compliance:	
7.6.1.3.	The contractor shall document and provision kits to be packaged and supplied with each Line Replaceable Unit (LRU) that contain all the repair parts and Common and Bulk Items (CBIL) less Petroleum, Oil and Lubricants (POL) that will be consumed in the removal and replacement of the LRU. The outcome will ensure that in ordering the LRU through DRMIS the CAF Technician will receive all items required to Remove and Replace the LRU. If there are cases where the contractor feels this is not efficient for a given LRU the Contractor shall recommend an alternative approach to the TA.	
	Compliance Statement:	YES
	Proof of Compliance:	
7.6.2.	Canada will accept existing drawings/associated list if they meet the requirements of CDRL ILS003, DID ILS-003.	
	Compliance Statement:	YES

Item No	Section Text / Compliance Statement (CS) / Proof of Compliance References (Bid section/para/sub-para etc)	
7.6.3. .	The cataloguing information for each item/assembly shall state whether the item is a Controlled Good. If applicable the information shall identify if the item/assembly is specifically subject to Controlled Goods regulations. If the Drawing or Associated List does not already include the Controlled Goods information then the information may be provided separately. Controlled Goods identification requirements include the following:	
a.	The Contractor shall identify for US origin controlled goods also known as defence articles, the United States Munitions List (USML) Category and paragraph that apply IAW the International Traffic in Arms Regulations (ITAR);	
b.	The Contractor shall identify for US origin dual use, the Export Control Classification Number (ECCN) of the Commerce Control List that applies;	
c.	The Contractor shall identify for Canadian origin items, Canada's Export Control List (ECL) articles that apply IAW the Schedule of the Defence Production Act (DPA);	
d.	The Contractor shall identify for any other country than Canada or the United States of America (USA), the category and article of the Wassenaar Control List that applies;	
e.	The Contractor shall identify any components or sub-components that are specifically designed or modified for military purpose, to facilitate the production of Demilitarization Instructions;	
f.	For items of US or Canadian origin that are going to be catalogued, the Demilitarization Code (DMC) shall be indicated in the Provisioning Parts Breakdown (PPB);	
g.	Marking of Controlled Goods packaging shall be done IAW the Transportation of Dangerous Goods Act, the Hazardous Products Act and Controlled Products Regulation; and	
h.	The Contractor shall be responsible for the functions associated with Controlled Goods Management of the Defence Production Act (DPA) requirements for SUAS equipment moving across international borders.	
	Compliance Statement:	YES
7.6.4.	For items that are not proprietary to the Original Equipment Manufacturer (OEM), the Contractor shall provide Level 1 Drawing/Associated Lists packages when and as required IAW CDRL ILS003, DID ILS-003.	
	Compliance Statement:	YES
7.6.5.	For all items that are proprietary to the OEM, the Contractor shall provide to DND Level 1 Drawing/Associated Lists packages when and as required IAW CDRL ILS003, DID ILS-003, and documentation certifying which parts are only available from a sole manufacturer.	
	Compliance Statement:	YES
7.6.6.	The Contractor shall enable Canada to access the appropriate Level 3 drawings at the Contractor facility with seven (7) calendar days notice when required for any specific investigation involving safety or airworthiness issues or unresolved technical problems.	
	Compliance Statement:	YES
7.6.7.	The Contractor shall deliver to Canada a Level 3 drawing package, IAW CDRL ILS003, DID ILS-003, for any special purpose items developed at Canada's cost.	
	Compliance Statement:	YES

Item No	Section Text / Compliance Statement (CS) / Proof of Compliance References (Bid section/para/sub-para etc)	
7.7.	Maintenance Concept	
7.7.2.2	Repairable components and assemblies on charge to the CAF units will be returned through to the Contractor and the repair work shall be processed IAW the terms of the in-service support Contract SOW.	
	Compliance Statement:	YES
7.7.4	Level 3 - Contractor Repair:	
7.7.4.1	The Contractor level maintenance that shall be performed by the Contractor includes repairs, upgrades, modifications and repair by exchange/replacement for components and assemblies returned to the Contractor.	
	Compliance Statement:	YES
7.7.4.2	The Contractor shall complete warranty repairs associated with the initial deliveries of equipment at no cost to Canada.	
	Compliance Statement:	YES
7.8.	Maintenance Plan	
7.8.1.	The Contractor shall submit a maintenance plan including detailed maintenance schedules, and logs for periodic maintenance and repairs IAW CDRL ILS004, DID ILS-004.	
	Compliance Statement:	YES
	Proof of Compliance:	
7.8.2.	This Maintenance Plan shall be prepared in the context of the Maintenance Concept, and shall be designed to maintain the required System availability in the context of Canada's maintenance concept.	
	Compliance Statement:	YES
7.8.3.	The Contractor shall provide appropriate technical publications required by CAF technicians/operators for the safe and effective performance of the applicable maintenance tasks to be carried out by CAF personnel.	
	Compliance Statement:	YES
	Proof of Compliance:	
7.9.	RSPL	
7.9.1.	The Contractor shall provide the RPSL IAW CDRL ILS005, DID ILS-005, including identification of long lead time items and any applicable material necessary to support 5,200 flight hours.	
	Compliance Statement:	YES
	Proof of Compliance:	Submit RSPL used in support of an existing Customer for review in the context of establishing that Bidder plans are based on appropriate understanding of system support requirements.
7.9.2.	The RSPL shall be based on component Mean Time Before Failure (MTBF) data arising from a combination of engineering and design data and on actual failure trends and data derived from operational trials or from support provided to operational flights.	
	Compliance Statement:	YES

Item No	Section Text / Compliance Statement (CS) / Proof of Compliance References (Bid section/para/sub-para etc)	
7.9.3.	The RSPL shall identify the recommended quantities of repair parts, spares and consumables to maintain System availability based on Contractor analysis of environment, usage and failure analysis. The actual quantity Canada will initially procure will be established during Contract negotiation/finalization.	
	Compliance Statement:	YES
7.10.	Repair and Overhaul (R&O)	
7.10.1.	The Contractor shall provide all component R&O support required under normal operating conditions to achieve the System availability and flight hours IAW Annex B (SPS).	
	Compliance Statement:	YES
7.10.2.	Contractor repair procedures shall be performed and documented under a separate Repair and Overhaul (R&O) contract and IAW the applicable sections of A-LM-184-001/JS-001, Special Instructions for Repair and Overhaul Contractors.	
	Compliance Statement:	YES
7.11.	Consumable Parts Bundle and Reparable Parts Bundle	
7.11.1.	If tasked, the Contractor shall generate and be prepared to deliver one (1) or more Consumable Parts Bundle or Reparable Parts Bundle to support deployed operations. Each Parts Bundle shall contain sufficient consumable and repairable spares and repair parts to support flight operations at a deployed site for 100 days while it is operating at an average rate of 10 hours per day. (I.e.: 1,000 flight hours worth of appropriate Spare Parts for the AV, GCS and Launch/Recovery equipment.)	
	Compliance Statement:	YES
7.11.2.	If tasked to create and hold a Parts Bundle, when using the Parts Bundleto rotate materials and spares provided to Canada, the Contractor shall demonstrate that they have the replacement materials or spares available within 30 days to restore the Parts Bundleto its full inventory.	
	Compliance Statement:	YES
7.11.3.	Upon deployment of an operational fleet, the spare parts and repairable stock contained in the Parts Bundle(s) will be transferred to a DRMIS Spares Account and managed as consignment stock for the duration of the deployment.	
	Compliance Statement:	YES
7.12.	Packaging, Handling, Storage and Transportation (PHST)	
7.12.1.	The Contractor shall provide all technical data, publications and material required for the safe storage, transportation, handling, and disposal procedures of any items to be handled by CAF personnel during the conduct of the System operation and related maintenance work.	
	Compliance Statement:	YES
	Proof of Compliance:	
7.12.2.	The Contractor shall provide instructions on the short term and the long term storage and handling of all batteries and all shelf life limited components and materials used in the System.	
	Compliance Statement:	YES
7.12.3.	Labelling and Packaging	

Item No	Section Text / Compliance Statement (CS) / Proof of Compliance References (Bid section/para/sub-para etc)	
7.12.3.1.	Marking Components for automated shipping and handling	
7.12.3.1.1.	The contractor shall generate, assign and install Unique Item Identifiers (UII) to all non consumable items delivered to DND. The UIIs shall be in a machine readable form on the outside of the material or on the package when not easily accessible. The implementation of this requirement shall be as mandated by A-LM-505-702/JS-001 and IAW STANAG 2290.	
	Compliance Statement:	YES
	Proof of Compliance:	
7.12.3.2.	The Contractor shall follow best commercial procedures for the labelling and packaging of equipment, assemblies and spare parts. Guidance on the minimum acceptable standards is available in the following DND references:	
	a. C-02-005-009/AM-000, Inspection And Conditioning Of Materiel Returned To And Held in The Supply System;	
	b. D-01-100-207/SF-000, Preparation of Parts Identification List:	
	c. D-LM-008-001/SF-001 Methods of Packaging;	
	d. D-LM-008-002/SF-001 Specification for Marking for Storage and Shipment;	
	e. D-LM-008-022/SG-000, The Standard for packaging of documentation; and	
	f. D-LM-008-036/SF-000 Department of National Defence Minimum Requirements For Manufacturer's Standard Pack.	
	Compliance Statement:	YES
7.12.3.3.	For materiel being shipped to or stored at a DND facility (such as spares and repair parts, special tools, support equipment, test equipment and training equipment), the Contractor shall provide data elements consistent with the applicable sections of A-LM-184-001/JS-001.	
	Compliance Statement:	YES
7.12.4.	The Contractor shall provide packaging instructions data for every item which has a provisioning unit of measure priced equal to or greater than three hundred dollars ($300).	
	Compliance Statement:	YES
7.12.5.	The Contractor shall prepare and submit a Special PHST Consideration Items List, for any items requiring special handling considerations.	
	Compliance Statement:	YES
7.12.6.	For all deliveries to the CFSS the Contractor shall provide for each line item a Unique Item Identifier (UII) which shall be applied in a machine readable barcode format (PDF 417) to the outside of any package of uniquely identified materiel where the Unique Item Description (UID) data matrix is not easily machine-readable through the packaging material (STANAG 2290).	
	Compliance Statement:	YES
7.13.	Initial Provisioning and In-Service Support:	
7.13.1.	Availability	

Item No	Section Text / Compliance Statement (CS) / Proof of Compliance References (Bid section/para/sub-para etc)	
7.13.1.2	When the System is properly operated and maintained by qualified CAF personnel using the spare part and consumable item resources included with the System, and IAW the Contractor provided training, operating and maintenance publications and directives, the System shall, on a (three month) quarterly average:	
a.	exceed a 90 % availability rating against the locally scheduled flight activities of at least 12 hours per day, seven (7) days per week for deployed operations; and	
b.	exceed a 90 % availability rating against the locally scheduled flight activities of at least 10 hours per day, five (5) days per week for training activities in Canada.	
	Compliance Statement:	YES
7.13.2.	Initial Operational Capability (IOC)	
7.13.2.1.	To achieve the IOC requirements the overall package of Initial Provisioning Spares, maintenance IAW the Maintenance Plan, and R&O service IAW the ILS and maintenance plans shall include adequate System equipment, spares/support kits and associated follow-on R&O service to conduct a minimum of 1,000 flight hours of operations and training at the following rates:	
a.	an average of 4,200 hours per year (approximately 350 hours per month) at a deployed operations site for any period that the System is deployed, and	
b.	an average of 1,000 hours per year (approximately 85 hours per month) for training in Canada.	
	Compliance Statement:	YES
7.13.3.	Full Operational Capability (FOC)	
7.13.3.1.	For FOC the delivered goods and services shall include all contracted System equipment and the overall package of spares, and Maintenance and R&O service IAW the ILS and Maintenance Plans.	
	Compliance Statement:	YES
7.13.3.2.	If the Contractor underestimates the quantity of spares required to support flight hours IAW Annex B (SPS), and as a result System availability falls below 90 % during the first 3,000 flight hours due to technical failure rates or attrition the Contractor shall be fully responsible for correcting all applicable parts shortages. This will not apply to attrition or losses due to operator decisions or errors, or due to hostile action.	
	Compliance Statement:	YES
7.14.	Information Management	
7.14.1.	Canada will establish an on-line database for the capture and monitoring of SUAS performance history and SUAS operators and maintainers. The Contractor shall monitor the information available to it from the database, and use the database site for receiving information from unit operators and communicating System reports and information as and when tasked by the TA.	
	Compliance Statement:	YES
7.14.2.	As and when tasked/directed the Contractor representative at the Commodity Point shall complete locally provided forms to provide input data for DRMIS	
	Compliance Statement:	YES
7.15.	Publication Management	

Item No	Section Text Compliance Statement (CS) Proof of Compliance References (Bid section/para/sub-para etc)	
7.15.1.	The Contractor shall provide proof that it has a Publication Management Plan which at the least is in accordance with CDRL ILS006, DID ILS-006. The Contractor Publication Management Plan shall include the management and distribution of all operational, technical and training publications, Alert Service Bulletins, Service Bulletins, and Service Information Letters.	
	Compliance Statement:	YES
	Proof of Compliance:	
7.15.3	Each GCS for the Systems shall include operator manuals when delivered.	
	Compliance Statement:	YES
7.15.4	For the complete duration of the Contract the Contractor shall provide, at no cost to Canada, all safety and airworthiness related Contractor initiated alerts and notices which have any impact on the Canadian capability.	
	Compliance Statement:	YES
7.15.5	For two (2) years after the initial System delivery the Contractor shall provide at no cost to Canada draft copies of any Contractor initiated publication amendments which have any impact on the original Canadian capability. These Contractor documents will be used by Canada to initiate any related bilingual publications amendment work under Canada's Publication Management Program.	
	Compliance Statement:	YES
7.15.6	The electronic copy of all publications delivered to Canada shall be of a format and quality suitable for extracting text, tables, images and image captions to Microsoft Word 2003 for translation and insertion into the bilingual CAF manuals developed IAW at least the following references:	
a.	D-01-100-203/SF-000, Preparation of Operating Instructions;	
b.	D-01-100-204/SF-000, Preparation of Preventive maintenance Instructions;	
c.	D-01-100-205/SF-000, Preparation of Corrective maintenance Instructions; and	
d.	D-01-100-207/SF-000, Preparation of Parts Identification List.	
	Compliance Statement:	YES
7.16.	Reproduction and Translation	
7.17.	Operation and Technical Publications	
7.17.1.	The Contractor shall provide all technical publications and documentation required by CAF technicians/operators in theatre and training locations to enable safe and effective performance of the applicable maintenance tasks and proper System training and operation.	
	Compliance Statement:	YES

Item No	Section Text / Compliance Statement (CS) / Proof of Compliance References (Bid section/para/sub-para etc)	
7.17.2.	This shall include, but not be limited to, the following:	
a.	Detailed System setup and teardown procedures, and all System Operating Instructions, System Operating Limitations, System Emergency Procedure documentation/checklists, System Maintenance Instructions manuals, etc., IAW CDRL AW003, DID AW-003, required to support Canada's airworthiness assessment and flight authorization processes and for the conduct of operations;	
b.	All Technical Publications, including System Maintenance Instructions and supporting manuals and documentation required for System maintenance and logistics support; IAW CDRL ILS007, DID ILS-007;	
c.	All ICDs, IAW CDRL SE001, DID SE-001, required for Land Command Support System (LCSS) and payload integration tasks;	
d.	Updates to the above when warranted due to equipment or procedure changes; and	
e.	If tasked, the Contractor shall provide Publication Management Services, including publication updates on an as required basis, for any technical manuals provided to Canada IAW CDRL ILS007, DID ILS-007.	
	Compliance Statement:	YES
	Proof of Compliance:	Submit a SUAS Flight or Operator Manual for review. The documentation shall include system operating instructions, operating limitations, emergency procedures and checklists.
7.17.3.	Equipment deliverables	
7.17.3.1.	The Contractor shall provide the Systems and spare parts to support daily operations at two (2) sites.	
	Compliance Statement:	YES
7.17.3.2.	Canada shall have the option to procure two (2) additional Systems.	
	Compliance Statement:	YES
7.17.3.3.	Canada will have the option of procuring additional spares beyond the initial Recommended Spare Parts List (RSPL) deliverables.	
	Compliance Statement:	YES
7.17.4.	Aircraft and Payload Replacements	
7.17.4.1.	The Contractor shall deliver replacement aircraft and payloads within 60 calendar days of receipt of the Contract amendment from the CA.	
	Compliance Statement:	YES
7.17.4.2.	Attrition replacements for aircraft returned to the Contractor that are Beyond Economic Repair (BER) shall be delivered as complete replacement aircraft delivered under the applicable repair tasks.	
	Compliance Statement:	YES
7.18.	Special Equipment, STTE	
7.18.1.	The Contractor shall identify all Special Equipment (SE). SE includes General Purpose Test Equipment, Special Purpose Test Equipment, General Purpose Tools, and Special Purpose Tools for Maintenance required for the conduct of any failure analysis and maintenance activities to be completed by CAF personnel IAW the Contractors maintenance plan for CAF units.	

Item No	Section Text / Compliance Statement (CS) / Proof of Compliance References (Bid section/para/sub-para etc)	
	Compliance Statement:	YES
7.18.2.	The Contractor shall provide and maintain a special tools and test equipment list. The STTE list shall include a list of all STTE necessary to support the capability IAW CDRL ILS008 and DID ILS-008.	
	Compliance Statement:	YES
	Proof of Compliance:	As outlined in DID ILS-008.
7.18.3.	The STTE list shall include a list of all tools and test equipment necessary to support the capability IAW the Contractors maintenance plan for CAF units.	
	Compliance Statement:	YES
7.18.4.	The delivery of all STTE purchased from the Contractor by Canada shall coincide with the delivery of the System.	
	Compliance Statement:	YES
7.19.	Training	
7.19.1.	General	
7.19.1.1.	The intent is that the Contractor, working in cooperation with CAF instructors, shall provide comprehensive training and a training support package that will serve to direct the initial training for SUAS personnel and to provide the source training documentation for Canada to train all future System Operators and Instructors.	
	Compliance Statement:	YES
7.19.2.	Training Plan (TP)	
7.19.2.1.	The Contractor shall deliver a TP IAW CDRL T001, DID Trg-001, and the Recommended Training Materials List (RTML) IAW CDRL T002, DID Trg-002.	
	Compliance Statement:	YES
	Proof of Compliance:	Training Course Outlines for system operators and supervisors, including Provisional training course dates. Draft list based on training materials used with previous customers
7.19.3.	Training Equipment	
7.19.3.1.	Equipment and software versions used for training shall be of the same version as will be used on deployed tasks. Training should be conducted using the Systems and ILS support delivered for CAF use.	
	Compliance Statement:	YES
7.19.4.	Training Management	

Item No	Section Text / Compliance Statement (CS) / Proof of Compliance References (Bid section/para/sub-para etc)	
7.19.4.1.	Training conducted under the TP shall be detailed enough to enable SUAV personnel to operate, manage and maintain (less level 3 maintenance) the System. However, the sign off the completed repairs and return to service documentation for AV repairs shall only be completed by appropriately qualified military maintainers and Contractor representatives	
	Compliance Statement:	YES
7.19.4.2.	RTML: The Contractor shall provide an appropriate RTML IAW CDRL T002, DID Trg-002, including training materiel, training aids, and equipment deemed appropriate for the establishment of CAF conducted SUAS training. The RTML will be validated during the Contractor provided training.	
	Compliance Statement:	YES
	Proof of Compliance:	Draft list based on training materials used with previous customers
7.19.4.3.	Any physical items on the RTML shall be delivered at least 30 days prior to the start of instructor training.	
	Compliance Statement:	YES
7.19.5.	Training Documentation	
7.19.5.1.	The Contractor shall provide Training Program Development Documentation packages IAW CDRL T003, DID Trg-003. This shall as a minimum include:	
a. a.	Training Task Analysis:	
(1)	The Contractor shall provide Task Analysis documentation for SUAS operator tasks, system management tasks, maintenance tasks, and SUAS Instructor training tasks that are required to use, manage, maintain and instruct on the SUAS; and	
(2)	The outcome of the analysis of training shall result in the development of performance objectives and performance checks as described by A-P9-050-000/PT-003 Analysis of Instructional Requirements;	
b.	Performance Objectives (PO):	
(1)	The Contractor shall provide Performance Objective documentation and performance checks appropriate for the validation of Contractor training and the intended development of CAF conducted training.	
(2)	The Contractor shall define the supporting skills, knowledge and attitudes required to achieve each performance objective.	
(3)	The Contractor shall define the scope of training by specifying the minimum level of acceptable performance expected by the individual performing the task for which training was identified.	
	Compliance Statement:	YES
	Proof of Compliance:	
7.19.5.2.	The above information shall be in sufficient detail to enable Canada to define the specification of course content, enabling objectives, lesson plans, training resource list and a course timetable IAW A-P9-050-000/PT-004, Design of Instructional Programs, and A-P9-050-000/PT-005, Development of Instructional Programs, and for the development of training evaluation program IAW A-P9-050-000/PT-007, Evaluation of Learners.	
	Compliance Statement:	YES

Item No	Section Text / Compliance Statement (CS) / Proof of Compliance References (Bid section/para/sub-para etc)	
7.19.6.	Conduct of Training	
7.19.6.1.	System Instructor Training	
7.19.6.1.1.	The Contractor shall provide all System specific training required to qualify 12 personnel from the Royal Regiment of Canadian Artillery School (RRCAS) and 4th Air Defence Regiment Royal Canadian Artillery (4 AD Regt) as System instructors.	
	Compliance Statement:	YES
7.19.6.1.2.	This training shall be completed no later than nine (9) months after Contract Award.	
	Compliance Statement:	YES
7.19.6.1.3.	This training shall take place at RRCAS facilities at CFB Gagetown, Oromocto, New Brunswick.	
	Compliance Statement:	YES
7.19.6.2.	System Operator Training	
7.19.6.2.1.	Following completion of the instructor training, the Contractor shall supervise and participate in System operator training.	
	Compliance Statement:	YES
7.19.6.2.2.	System operator training shall be conducted by the Contractor and two (2) to three (3) CAF instructors.	
	Compliance Statement:	YES
7.19.6.2.3.	This training shall be conducted at CFB Gagetown.	
	Compliance Statement:	YES
7.19.6.2.4.	The Contractor shall ensure that the RRCAS instructors are providing instruction that fully meets or exceeds the Contractor System operator training standards.	
	Compliance Statement:	YES
7.19.6.3.	Technician Training	
7.19.6.3.1.	The Contractor shall provide a list of Minimum Core Competencies/Aptitudes to aid in the CAF Technician selection process. Canada will use this information to select technicians for training on maintenance tasks not typically completed by the SUAS operators.	
	Compliance Statement:	YES
	Proof of Compliance:	
7.19.6.3.2.	The Contractor shall train up to eight (8) CAF personnel to perform level one and level two maintenance procedures. After successfully completing the Contractor training, these CAF personnel will be able to complete level 1 and level 2 inspection and repairs IAW the Contractor's unit maintenance instructions and maintenance publications.	
	Compliance Statement:	YES

Item No	Section Text / Compliance Statement (CS) / Proof of Compliance References (Bid section/para/sub-para etc)	
7.19.6.3.3.	The Contractor shall train up to eight (8) of the above CAF maintenance qualified personnel as maintenance instructors. After successfully completing the maintenance instructor training, these CAF personnel will be able to provide appropriate maintenance training, and to inspect and certify level 1 and level 2 inspection and repairs performed by CAF personnel IAW the Contractor's unit maintenance instructions and maintenance publications.	
	Compliance Statement:	YES
7.19.7.	Simulation Requirement	
7.19.7.1.	Each of the eight (8) SGCS installations shall include a simulation capability as specified under Annex B (SPS) which enables operators to conduct training in the MSVS Shelter or classroom as applicable.	
	Compliance Statement:	YES
7.19.7.2.	The initial simulation training capability shall be provided and working no later than the date of the start of the first CAF Instructor training course.	
	Compliance Statement:	YES
7.19.7.3.	The simulation training solution shall also match the Contractor's own individual training and operator currency standards including launch and recovery operations.	
	Compliance Statement:	YES
7.19.9	Contractor Qualifications and Standards	
7.19.9.1	The Contractor shall provide a Summary of Contractor Operator Qualifications & Authorizations, System specific training, training standards and currency requirements for Contractor staff IAW CDRL ILS009, DID ILS-009. This information will be referenced by Canada during the process of developing CAF operator qualifications and periodic currency training requirements. This information will also be subject to confirmation during any audit of Contractor management processes.	
	Compliance Statement:	YES
	Proof of Compliance:	The Contractor shall provide existing documentation confirming Contractor operator qualifications and authorizations, UAV specific training, training standards and currency requirements
7.19.9.2	Updates to these documents shall be provided throughout the Contract period if the Contractor makes any changes to its program that affect airworthiness suitability and training standards.	
	Compliance Statement:	YES
7.20.	Equipment Disposal	
7.20.1.	The Contractor documentation shall include specific instructions for decommissioning and disposing of any equipment items that are deemed to be Controlled Goods or hazardous materials. (This includes the battery disposal procedures.)	
	Compliance Statement:	YES

Item No	Section Text / Compliance Statement (CS) / Proof of Compliance References (Bid section/para/sub-para etc)	
7.20.2.	The Contractor documentation shall include recommendations for the decommissioning and disposal of any equipment items that are not specifically covered under section 7.20.1	
	Compliance Statement:	YES
7.21.	Contractor Travel	
7.21.1.	Travel at Canada's cost shall only be undertaken with written authorization from the CA.	
	Compliance Statement:	YES
7.21.2.	Expenses related to necessary Contractor travel shall only be reimbursed IAW the applicable Canadian Treasury Board (TB) travel guidelines.	
	Compliance Statement:	YES
7.21.3.	If for the Contractor considers it necessary to change or replace its training supervisor during a course the Contractor shall be responsible for the resulting additional travel cost.	
	Compliance Statement:	YES
8.	ADDITIONAL IN-SERVICE SUPPORT	
8.1.	Technical Investigations and Engineering Services	
8.1.1.	Flight Incident Investigations	
8.1.1.1.	When requested the Contractor shall provide support to attrition and to CAF Flight Incident investigations in the form of analysis of the event, interpretation of the telemetry data, analysis of components (if recovered), and provision of relevant historical system failure data. Routine minor landing damage will not require investigation unless collectively they indicate a failure trend in excess of the System specification.	
	Compliance Statement:	YES
8.2.	In-Service / R&O Contract Support	
8.2.1.	The Contractor shall provide the plans and documents listed below to the In Service Support/R&O Contract. To the extent that they are applicable the plans shall take effect as part of the support Contract. The intent is that where applicable the plans will be used by the Contractor for the duration of the support Contract and any applicable support Contract extensions.	
	Compliance Statement:	YES

APPENDIX 4 TO ANNEX G

CANADIAN ARMY
SMALL UNMANNED AIRCRAFT SYSTEM
IN-SERVICE SUPPORT (SUAS-S)

STATEMENT OF WORK (SOW)
COMPLIANCE EVALUATION MATRIX

Compliance Statement (CS) /Proof of Compliance References

Where the Bidder input row indicates “Compliance Statement” the value has been set to (YES) by default. Bidders not conforming or agreeing with this requirement should replace the CS with (NO), the bid will then be deemed to be non compliant.

Where the Bidder input row indicates “Proof Of Compliance” the Bidder is required to insert the applicable proposal documentation references where the evaluation team may find the proof of compliance. The Proof of Compliance may include appropriate certificates, statistical data, reports (from operational trials, operations or other customers), appropriate demonstrations, or in some cases a statement of intent supported by details of an ongoing development program which has already successfully completed initial engineering trials.

Bidder's name: _____

Item No	Section Text Compliance Statement (CS) Proof of Compliance References (Bid section/para/sub-para etc)	
1	INTRODUCTION	
1.2.2.2	Outcomes	
1.2.2.2.1	The support for the SUAS fleet requires the following outcomes:	
a. b. c.	Provision of timely, accurate airworthy engineering support products and services Provision of airworthy SUAS and parts when and where required in an effective and efficient manner; and Provision of SUAS maintenance and training support services.	
	Compliance Statement	YES
1.4	Electronic Document Format	
1.4.1	With the exception of ".pdf" files any electronic format document deliverables will be deemed to be non-compliant and will not be accepted as Contract deliverables unless a typical Department of National Defence (DND) workstation can import, read, edit, print and save the document.	
	Compliance Statement	YES
1.4.2	Pdf files are only acceptable for those documents that the TA has no requirement to insert comments, to amend the text or data, to extract text or data, or to use the content of the document for other action.	
	Compliance Statement	YES
1.5	Mandatory Criteria Definition:	
1.5.1	A Mandatory requirement as identified by "shall" indicates that the Contractor is required to complete and deliver the work as stipulated in the applicable section of the SOW. A Contractor is only deemed to be in compliance with the Contract requirements while they are meeting all mandatory criteria.	
	Compliance Statement	YES
2	APPLICABLE DOCUMENTS	
3	GENERAL REQUIREMENTS	
3.1	Materiel Transportation Responsibilities	
3.1.1	The Contractor shall be responsible for the transportation of materiel being delivered to 7 Canadian Forces Supply Depot (CFSD) Edmonton, and to the SUAS Commodity Point at CFB Gagetown. The Contractor shall be responsible for the transportation of materiel being shipped from the Commodity Point to the Contractor facility for repair or other work such as technical evaluations or investigations. If tasked the Contractor shall also be responsible for the transportation of material being delivered to additional sites such as a Logistic Hub operated in support of a deployed operation.	
	Compliance Statement	YES
3.2	Hazardous Materials (HAZMAT) and Products	
3.2.1	The Contractor shall comply with the Hazardous Products Act. This includes the requirement that the Contractor shall provide the required bilingual Material Safety Data Sheets (MSDS) for the shipment of any chemical or material deemed to be HAZMAT.	
	Compliance Statement	YES

Item No	Section Text Compliance Statement (CS) Proof of Compliance References (Bid section/para/sub-para etc)	
3.2.2	Treasury Board Hazardous Substance Directive and Canada Labour Code Part II dictate that the least hazardous materials should be used at the workplace. Therefore, the Contractor shall strive to use the least hazardous product that meets the requisite performance requirements, and to avoid the use of controlled products.	
	Compliance Statement	YES
3.3	Canadian Transportation of Dangerous Goods Act	
3.3.1	The Contractor shall comply with the Canadian Transportation of Dangerous Goods Act. This includes the requirement that the Contractor shall provide all required labels for any shipment of dangerous goods.	
	Compliance Statement	YES
3.4	Environmental Health and Safety (EHS) Management	
3.4.1	The Contractor shall comply with the DND general safety program as detailed below, when work is performed at government owned facilities:	
a.	A-GG-040-004/AG-001 - General Safety Program - Volume 1, Policy and Program;	
b.	C-02-040-007/TS-001- General Safety Precautions;	
c.	C-02-040-009/AG-001- DND General Safety Standards; and	
d.	Canada Labour Code, Part II.	
	Compliance Statement	YES
3.4.2	The Contractor shall have an Occupational Health and Safety Management System (OHSMS), which is consistent with the principles presented in Occupational Health and Safety Assessment Series (OHSAS) 18001 at its facilities located in Canada.	
	Compliance Statement	YES
3.4.3	The Contractor's activities shall fully comply with the Canadian Environmental Protection Act and relevant environmental protection statutes and regulations whenever and wherever the activities are conducted in Canada.	
	Compliance Statement	YES
3.5	Green Procurement	
3.5.1	Canada is committed to greening its supply chain. In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to acquire products and services that have a lower impact on the environment than those traditionally acquired. Assessing the environmental impact of a product or service involves considering the whole life cycle of the product or service, from the extraction of the raw material to its disposition at the end of its useful life.	
	Compliance Statement	YES
4	PROGRAM MANAGEMENT SERVICES	
4.1	Program Management/Control	
	Note: Each CDRL item in the SOW has a corresponding DID.	

Item No	Section Text Compliance Statement (CS) Proof of Compliance References (Bid section/para/sub-para etc)	
4.1.1	The Contractor shall provide program management, including a Program/Project Manager (PM) and any support staff necessary to manage the Contractor work under this program. Canada will not provide office/work space for the PM and the associated support staff. For the period that the acquisition and this support Contract are both in effect the PM established under the acquisition program shall be the joint PM of both Contracts.	
	Compliance Statement	YES
4.1.2	The Project Management Plan (PMP) (CDRL PM01, DID PM-01) generated and approve under the SUAS Acquisition Contract shall be adopted by the in-service support contract, and the work shall be managed IAW that PMP. This includes all requirements for maintaining schedules, hosting or attending meetings, producing minutes for meetings, delivering reports, delivering updates to information and documentation related to SUAS airworthiness and operating frequencies when applicable, and ensuring its personnel are trained and qualified to deliver support IAW the Contract.	
	Compliance Statement	YES
	Proof Of Compliance:	Provide details: Milestone list and outline PMP submitted for tasks included with RFP as part of bid proposal.
4.1.3	The Contractor shall manage the project in accordance with the approved PMP.	
	Compliance Statement	YES
4.1.4	Meetings	
4.1.4.1	The Contractor shall provide support and assistance for Contract Progress Review Meetings (PRMs).	
	Compliance Statement	YES
4.1.4.2	PRMs shall alternate between the Contractor's facilities and Canada`s facilities in the region of Ottawa, Canada, or such other reasonable location as Canada requests in writing.	
	Compliance Statement	YES
4.1.4.3	Videoconferencing and teleconferencing should be used when practical.	
	Compliance Statement	YES
4.1.4.4	The Contractor shall provide appropriate representation at Contract PRMs, to be held with Canada at the following designated intervals: a. Initial program Kick-off meeting at the Contractor facility within four (4) weeks of Contract Award, b. Annual PRMs for the duration of the Contract, c. Additional PRMs at Contractor facility if or when required, and d. Tele-conferences if deemed necessary by Canada.	
	Compliance Statement	YES
4.1.4.5	When the Contractor has more than 48 hours lead time before a meeting the Contractor shall provide a one (1) page meeting agenda to the TA.	
	Compliance Statement	YES
4.1.4.6	The Contractor shall provide minutes for each meeting, videoconference and tele-conference IAW CDRL PM02, DID PM-02.	

Item No	Section Text Compliance Statement (CS) Proof of Compliance References (Bid section/para/sub-para etc)	
	Compliance Statement	YES
4.1.4.7	During each meeting the Contractor shall provide to the TA, in the appropriate electronic format and media, copies of any Presentation Packages as presented at the meeting.	
	Compliance Statement	YES
4.1.4.8	The draft electronic format presentations for Quarterly PRMs shall be delivered one week prior to the meeting.	
	Compliance Statement	YES
4.1.5	Reports	
4.1.5.1	The Contractor shall submit progress reports IAW CDRL PM03, DID PM-03 as and when required.	
	Compliance Statement	YES
4.1.6	Contractor Qualifications and Standards	
4.1.6.1	The Contractor shall ensure that at the minimum its Field Service Representatives are trained and qualified IAW the Contractor standards as detailed IAW CDRL ILS09, DID ILS-09.	
	Compliance Statement	YES
	Proof Of Compliance	The Contractor shall provide existing documentation confirming Contractor operator qualifications and authorizations, UAV specific training, training standards and currency requirements.
4.2	Contractor Risk Management	
4.2.1	As and when appropriate, and as a minimum following the requirements of CDRL PM04, DID PM-04, the Contractor shall track and report to Canada on any risks with a potentially serious impact on the CAF capability, and any new risks identified that affects System airworthiness or airworthiness risk calculations.	
	Compliance Statement	YES
	Proof Of Compliance:	Draft Contractor RMP based on RMP for existing customers.
4.3	Frequency Management and Supportability	
4.3.1	If there are any changes to the Radio Equipment for the System the Contractor shall complete and submit the updated form DND 552, Application For Frequency Supportability, IAW CDRL SE04, DID SE-04, or the United States Department of Defence equivalent, accompanied by supporting documentation to enable Canada to assess the impact on SUAS operations. There shall be separate forms covering each of the following sub-systems for the aircraft and the Ground Control Station (GCS):	
a.	Transmitter Equipment Characteristics,	
b.	Receiver Equipment Characteristics, and	
c.	Antenna Equipment Characteristics.	

Item No	Section Text Compliance Statement (CS) Proof of Compliance References (Bid section/para/sub-para etc)	
	Compliance Statement	YES
4.4	Integrated Logistics Support Plan	
4.4.1	Where applicable the original ILS plan delivered IAW CDRL ILS01, DID ILS-01, and its sub-component plans shall be used for the routine SUAS support work under this SOW. As and when appropriate the Contractor shall propose updates to the ILS Plan.	
	Compliance Statement	YES
4.5	Maintenance Plan	
4.5.1	Maintenance will be conducted IAW the Contractors maintenance plan delivered IAW CDRL ILS04, DID ILS-04. In the event that there is any change to equipment, software or procedures that requires an amendment to the maintenance procedures the Contractor shall inform Canada of the changes as early as is practical. The changes shall only become effective the date Canada publishes an amendment to the applicable maintenance publication, or issues a service bulletin to the applicable CAF operator units.	
	Compliance Statement	YES
4.6	Publication Management Plan	
4.6.1	The Contractor shall be responsible for maintaining its publications IAW its Publication Management Plan as provided under CDRL ILS06, DID ILS-06. The Contractor remains responsible for informing Canada of any change to the technology or software that is a result of its support to other SUAS operators or a result of configuration changes. Note that configuration changes for Canada's equipment shall only be allowed on completion of the appropriate engineering change approval process by Canada.	
	Compliance Statement	YES
4.7	Training Plan	
4.7.1	If tasked, the Contractor will provide support to CAF training conducted IAW the Training Plan. If tasked the Contractor shall review and recommend updates to the Training Plan delivered IAW CDRL T01, DID Trg-01.	
	Compliance Statement	YES
4.8	Office Services	
4.8.1	The Contractor shall perform the secretarial and clerical work necessary to carry out the terms of this contract with respect to the preparation, filing and transmission of all forms, reports and correspondence, relating to the movement, accounting, storage, repair, overhaul, quality control and investigation of materiel covered by this contract.	
	Compliance Statement	YES
4.9	Plant Shutdown/Vacation Period	
4.9.1	During plant shutdown and/or vacation periods, the Contractor shall ensure that adequate facilities/personnel are available to ensure the satisfaction of High Priority Requirements (HPRs). If contractor personnel are not on site during shutdown, a list of names and home phone numbers of those Contractor personnel to be contacted during plant closure shall be provided to the National Defence Quality Assurance Region (NDQAR). It is the Contractor's responsibility to ensure that personnel are available to satisfy Priority Repair Request (PRR) requirements once identified.	
	Compliance Statement	YES

Item No	Section Text Compliance Statement (CS) Proof of Compliance References (Bid section/para/sub-para etc)	
5	AIRWORTHINESS	
5.1	Airworthiness Supporting Documentation	
5.1.1	Airworthiness clearance process documentation submitted IAW CDRLs AW01 through AW07, DIDs AW-01 through AW-07, and other applicable CDRLs shall be updated if or as required during the Contract. This includes, but is not necessarily limited to, the following:	
a.	The Contractor shall provide notification of any planned changes to its Quality Management System;	
	Compliance Statement	YES
b.	The Contractor shall provide notification of any planned changes to its Configuration Management System(s);	
	Compliance Statement	YES
c.	If requested, or if significant events warrant an update, the Contractor shall provide annual updates to its System Statistics (loss rate, incident rate, availability and reliability claims). This information could be required during preparation for the Airworthiness Review Board meetings every May and/or November;	
	Compliance Statement	YES
d.	If requested the Contractor shall provide annual updates to its Product Description Package (PDP) IAW CDRL AW01, DID AW-01;	
	Compliance Statement	YES
e.	If requested, or if significant events warrant an update, the Contractor shall provide annual updates to its System Safety Assessment and Functional Hazard Assessment (if any such documents exists) IAW CDRL AW02, DID AW-02 (if applicable); and	
	Compliance Statement	YES
f.	If requested, or if significant changes warrant an update, the Contractor shall provide annual updates to System Flight Manuals (including aircraft operation instructions, standard manoeuvre manuals and checklists) IAW CDRL AW03, DID AW-03.	
	Compliance Statement	YES
5.2	In-Service Support	
5.2.1	General	
5.2.1.1	The validity of the Technical Airworthiness Clearance (TAC) issued by DND is conditional on the continued airworthiness of the contracted services and associated equipment used to fulfil the contractual requirements. The contractor shall be required to provide DND with a reasonable assurance that the level of safety can be maintained for the duration of the contract and option periods.	
	Compliance Statement	YES
5.2.2	Airworthiness Management Plan (AMP)	
5.2.2.1	The contractor shall maintain and follow the AMP IAW CDRL AW08, DID AW-08. The contractor shall meet the requirements of this plan in order to maintain the Technical Airworthiness Clearance of the SUAVs and the SUAS as a whole. Proposed changes to the AMP shall be submitted to the TA for TAA approval.	
	Compliance Statement	YES

Item No	Section Text Compliance Statement (CS) Proof of Compliance References (Bid section/para/sub-para etc)	
5.2.3	Technical Airworthiness Authority Oversight	
5.2.3.1	The contractor shall provide access to contractor facilities to perform the in-service support system evaluation and any audits, review or evaluations conducted during in-service SUAS operations. Where the TAA identifies that an audit, review, or evaluation is required, the following support will be needed from the organization being assessed:	
a.	On-site support to the audit team, including office space to conduct meetings and interviews;	
b.	Access to qualification and authorization files of staff supporting the SUAS;	
c.	Access to work orders and other technical data generated within the organization supporting the SUAS;	
d.	Access to engineering and technical information used in support of the continued airworthiness of the SUAS;	
e.	Access to the organizations records and reports that support the Quality Management System registration;	
f.	Access to organizational manuals, procedures and instructions used to support the SUAS;	
g.	Technical and management staff to support DND auditors; and	
h.	Preparation and implementation of Corrective Action Plans, when required, that are acceptable to the TAA.	
	Compliance Statement	YES
5.2.4	Engineering Support Services	
5.2.4.1	The Contractor shall ensure that SUAV Original Equipment Manufacturer (OEM) approved engineering support services are available for the duration of the Contract.	
	Compliance Statement	YES
5.2.4.2	To maintain the System suitability for certification or flight authorization within the terms specified in or associated with the SOW, the Contractor shall submit any applicable updates to documentation provided to Canada that demonstrates satisfactory proof of the design, production and quality assurance processes. The information shall conform to ISO 9001:2008 Quality Management System Requirement and ISO/IEC 90003 Software Engineering - Guidelines for the application of ISO 9001:2000, to computer software.	
	Compliance Statement	YES
5.2.5	Airworthiness Manager	
5.2.5.1	The Contractor shall have and shall identify an airworthiness manager that is the point of contact for all airworthiness related problems. This person shall be the point of contact for reaching the OEM for airworthiness issues.	
	Compliance Statement	YES
5.3	Markings	
5.3.1	Canada will maintain the aircraft registration IAW the Aeronautics Act requirements. On receipt of the aircraft serial number information Canada will assign registration numbers to each aircraft.	
	Compliance Statement	YES
6	SYSTEM ENGINEERING	

Item No	Section Text Compliance Statement (CS) Proof of Compliance References (Bid section/para/sub-para etc)	
6.1	General SUAS Requirements	
6.1.1	The Contractor's System Engineering services provided to Canada under this program shall focus on sustaining Canada's flight authorization requirements. In this context, the Contractor shall employ system engineering, testing and production procedures that fully comply with all System specifications and standards requirements of the System, as described in Annex B (SPS).	
	Compliance Statement	YES
6.1.2	As and when any need arises during the term of the Contract, the Contractor shall execute all required system engineering tasks to design, develop and integrate any system changes needed to maintain the system performance IAW Annex B (SPS) items in effect or agreed to at Contract award or as modified by any applicable Contract amendment.	
	Compliance Statement	YES
6.2	Technical Issue Resolution	
6.2.1	The Contractor shall, on an as required basis, resolve any identified technical or Contractor initiated procedural problems with the original contracted baseline SUAV capability. The Contractor shall provide technical advice and engineering support to design, develop, integrate, manufacture, install, test, qualify, certify and support the System as per the specifications and scope of the Contract or as changed by any completed tasks and approved configuration changes in effect at the time a problem is identified.	
	Compliance Statement	YES
6.3	Technical Investigations and Engineering Support (TIES)	
6.3.1	Technical advice requiring drawings or preparation of documented answers, and engineering tasks such as integrating new payloads and managing component obsolescence, shall be provided as and when required under TIES tasks.	
	Compliance Statement	YES
6.3.2	The Contractor shall provide quotes and process proposed TIES task documentation IAW the applicable contract terms and conditions.	
	Compliance Statement	YES
6.3.3	The Contractor shall only perform the work and provide the services specified in any approved TIES task on receipt of the appropriate approved contractual documentation (DND 626).	
	Compliance Statement	YES
6.4	Configuration Management (CM)	
6.4.1	The Contractor shall be responsible for CM for the SUAS hardware and software the Contractor provides for this program, and shall conduct CM activities IAW the approved CM Plan IAW CDRL SE03, DID SE-03.	
	Compliance Statement	YES
	Proof Of Compliance:	Submit draft. Draft shall reflect recognized ISO and QA standard configuration management processes the Contractor shall already have in place for the UAS.

Item No	Section Text Compliance Statement (CS) Proof of Compliance References (Bid section/para/sub-para etc)	
6.4.2	The Contractor shall not introduce configuration or system support changes to Systems providing ISR capabilities to Canada without the prior approval of the TA in the form of an Engineering Change Proposal (ECP) approval. The Contractor shall submit an ECP IAW MIL-HDBK-61A, Configuration Control or an equivalent ECP process for each proposed configuration change. If Canada accepts the proposal the ECP will be signed off and returned to the Contractor for action/implementation, and Canada will raise a task for the applicable work.	
	Compliance Statement	YES
6.4.3	The Contractor shall follow the engineering release system put in place for the SUAS Acquisition Contract for configuration documentation to issue any required material change notices and updated configuration documentation IAW D-01-100-215/SF-000.	
	Compliance Statement	YES
6.4.4	Request for Deviations/Waivers	
6.4.4.1	The Contractor shall observe standard CAF practices for any temporary or permanent change from baseline system specifications for new System components developed and placed in service on equipment used for this contract.	
	Compliance Statement	YES
6.4.4.1.1	The Contractor shall submit a Request for Deviation IAW CDRL SE02, DID SE-02 when specific replacement or repaired components will not meet the contracted performance specifications for a specific period of time.	
	Compliance Statement	YES
6.4.4.1.2	The Contractor shall submit a Request for Waiver IAW CDRL SE02, DID SE-02 when a proposed permanent change will affect the System compliance to Annex B (SPS).	
	Compliance Statement	YES
6.5	Obsolescence Management	
6.5.1	The Contractor shall maintain System airworthiness standards and the applicable documentation for the baseline System for the term of the Contract by implementing any necessary obsolescence management and resulting technology updates.	
	Compliance Statement	YES
6.5.2	Additional system engineering support for equipment not included in the original contracted System baseline shall be separately negotiated as and when required for the applicable equipment customization and testing.	
	Compliance Statement	YES
6.6	System Evaluation and Acceptance Testing	
6.6.2	If tasked, the Contractor shall update the Acceptance Test Plan (ATP) delivered IAW CDRL SE05, DID SE-05.	
	Compliance Statement	YES
6.6.3	The Contractor shall conduct any appropriate Acceptance Testing on any additional new Systems and new or repaired equipment prior to delivery to Canada.	
	Compliance Statement	YES

Item No	Section Text Compliance Statement (CS) Proof of Compliance References (Bid section/para/sub-para etc)	
6.6.4	The Contractor shall inform Canada of the acceptance testing dates and locations early enough to enable Canada to coordinate the required visit clearances and cost effective travel and accommodations if Canada decides to attend the acceptance testing.	
	Compliance Statement	YES
7	INTEGRATED LOGISTICS SUPPORT (ILS)	
7.1	ILS Plan	
7.1.1	General	
7.1.1.1	The Contractor shall update and use the ILS Plan provided IAW CDRL ILS01, DID ILS-01.	
	Compliance Statement	YES
7.1.1.2	Within the ILS Plan the Contractor shall ensure the provision of Supply Support in the form of consumable and repairable spare parts on an as required basis to sustain the System reliability and availability.	
	Compliance Statement	YES
7.1.1.3	Within the ILS Plan the Contractor shall ensure the provision of Maintenance Support IAW the maintenance concept and the Maintenance Plan delivered under CDRL ILS04, DID ILS-04.	
	Compliance Statement	YES
7.1.1.4	The Contractor shall ensure it is capable of providing additional Field Service Representative (FSR) personnel to provide System support within 60 days of receipt of a support AWR task.	
	Compliance Statement	YES
7.1.1.5	Local Support	
7.1.1.5.1	The Contractor shall establish a Commodity Point for in-service support operation in a CAF facility to be provided at Canadian Forces Base Gagetown to support training and maintenance. This facility shall be manned on an as tasked basis by an FSR qualified to perform and approve all levels of technical maintenance support	
	Compliance Statement	YES
7.1.1.5.2	The Contractor shall also provide additional in-service support at other CAF work sites to support training and maintenance on an as and when tasked basis. When these tasks are conducted in Canada or the United States at a time when there is no scheduled flight activity at CFB Gagetown, if tasked the FSR from CFB Gagetown will deploy to the task site.	
	Compliance Statement	YES
7.1.2	Drawings, Associated Lists and Cataloguing	
	The SUAS and components, including reusable shipping/storage containers supplied by the Contractor that will be held by Canada in support of SUAV operation, training and maintenance activity, shall be appropriately catalogued.	
	Compliance Statement	YES
7.1.2.1.1	Where the item has already been catalogued under a NATO Stock Number (NSN), the Contractor shall only be required to provide information which identifies the items to Canada's satisfaction and enables Canada to adopt the existing Stock Number.	
	Compliance Statement	YES

Item No	Section Text Compliance Statement (CS) Proof of Compliance References (Bid section/para/sub-para etc)	
7.1.2.1.2	Where items have not already been catalogued the Contractor shall provide IAW CDRL ILS03, DID ILS-03, cataloguing documentation and information including drawings which conform to the standards of D-01-400-001/SG000, Engineering Drawings Practices	
	Compliance Statement	YES
7.1.2.2	The cataloguing information for each item/assembly shall state whether the item is a Controlled Good. If applicable the information shall identify if the item/assembly is specifically subject to Controlled Goods regulations. If the Drawing or Associated List does not already include the Controlled Goods information then the information may be provided separately. Controlled Goods identification requirements include the following:	
	Compliance Statement	YES
a.	The Contractor shall identify for US origin controlled goods also known as defence articles, the United States Munitions List (USML) Category and paragraph that apply IAW the international traffic in arms regulations (ITAR);	
	Compliance Statement	YES
b.	The Contractor shall identify for US origin dual use, the Export Control Classification Number (ECCN) of the Commerce Control List that applies;	
	Compliance Statement	YES
c.	The Contractor shall identify for Canadian origin items, Canada's Export Control List (ECL) articles that apply IAW the Schedule of the Defence Production Act (DPA);	
	Compliance Statement	YES
d.	The Contractor shall identify for any other country than Canada or the United States of America (USA), the category and article of the Wassenaar Control List that applies;	
	Compliance Statement	YES
e.	The Contractor shall identify any components or sub-components that are specifically designed or modified for military purpose, and not spared as Controlled or Non-Controlled Goods to facilitate the production of Demilitarization Instructions;	
	Compliance Statement	YES
f.	For items of US or Canadian origin that are going to be catalogued, the Demilitarization Code (DMC) shall be indicated in the Provisioning Parts Breakdown (PPB);	
	Compliance Statement	YES
g.	Marking of Controlled Goods packaging shall be done IAW the Transportation of Dangerous Goods Act, the Hazardous Products Act and Controlled Products Regulation; and	
	Compliance Statement	YES
h.	The Contractor shall be responsible for the functions associated with Controlled Goods Management of the Defence Production Act (DPA) requirements for SUAS equipment moving across international borders.	
	Compliance Statement	YES
7.1.2.3	The Contractor shall enable Canada to access the appropriate Level 1 to Level 3 drawings at the Contractor facility with seven (7) calendar days notice when required for any specific investigation involving safety or airworthiness issues or unresolved technical problems.	

Item No	Section Text Compliance Statement (CS) Proof of Compliance References (Bid section/para/sub-para etc)	
	Compliance Statement	YES
7.1.2.4	The Contractor shall deliver to Canada a Level 3 drawing package, IAW CDRL ILS03, DID ILS-03, which conforms to the standards of D-01-400-001/SG000, Engineering Drawings Practices, for any special purpose items developed at Canada's cost under a TIES or AWR task.	
	Compliance Statement	YES
7.2	Supply Support	
7.2.1	Additional Spare parts and Parts Replacements	
7.2.1.1	The Contractor shall provide Canada the option to procure additional spare parts beyond the initial SUAS Acquisition Contract deliverables.	
	Compliance Statement	YES
7.2.1.2	The contractor shall generate, assign, and install Unique Item Identifiers (UII) to all items delivered to DND. The UIIs shall be in a machine readable form on the outside of the material or on the package when not easily accessible. The implementation of this requirement shall be as mandated by A-LM-505-702/JS-001 and IAW STANAG 2290.	
	Compliance Statement	YES
7.2.2	Transaction Documentation	
7.2.2.1	For items delivered to the Contractor via the CFSS, the Contractor's Document Control Group (DCG) facilities shall file and retain the following auditable transaction documentations by applicable account Repairable Material Account (RMA) or Repair Shop Account (RSA) warehouse either by Stock Code or by Requisition Number, in accordance with Part 3 of A-LM-184-001/JS-001: a. Stock Code sequence followed by requisition number; or b. Requisition number.	
	Compliance Statement	YES
7.2.2.2	For items delivered to the Contractor outside of the CFSS, the Contractor's Document Control Group (DCG) facilities shall file and retain auditable transaction documentations, maintaining records to the same standards as for 7.2.2.1, by Part Number and Requisition Number.	
	Compliance Statement	YES
7.2.3	Consumable Items – Local Delivery	
7.2.3.1	For routine maintenance supported from the FSR operated Commodity Point the sequence of events for delivery of consumable items shall be as follows:	
	Compliance Statement	YES
b.	The FSR confirms if the consumable item is authorized for release to the unit by checking existing pre-authorized expenditure lists. If the item is not on a pre-authorized release list the FSR shall request authorization by contacting the RA;	
	Compliance Statement	YES
c.	If release authorization is confirmed, the FSR shall ensure the requirement and transactions are initiated and appropriately tracked and complete appropriate local documentation forms with the information required by DND for input into DRMIS;	
	Compliance Statement	YES

Item No	Section Text Compliance Statement (CS) Proof of Compliance References (Bid section/para/sub-para etc)	
e.	The FSR retains a copy of all applicable documentation for transaction verification/audit purposes; and;	
	Compliance Statement	YES
f.	The FSR ensures the invoice action is initiated as and when appropriate.	
	Compliance Statement	YES
7.3	Contractor Supply Accounting	
7.3.1	Materiel held on Contractor Repair Parts Account (CRPA), RSA and RMA shall be accounted for as per the Canadian Forces Supply System (CFSS) automated procedures in accordance with A-LM-184-001/JS-001. Government Furnished Overhaul Spares (GFOS) and Accountable Advanced Spares (AAS) will be accounted for in either a manual or an automated system. Regardless of the system used, the Contractor shall maintain an audit trail acceptable to DND. Further, any automated or manual materiel accounting system shall first be approved by the RA. Supply accounting records for DND materiel shall be maintained separate from other company records.	
	Compliance Statement	YES
7.4	DND Publications	
7.4.1	General procedures with respect to management of publications are contained in PART 11 of A-LM-184-001/JS-001. The Contractor shall document requirements for publications and submit to the NDQAR. The Contractor shall develop procedures to control all DND publications in their possession and be responsible for amending all DND publications in his custody. The Record of amendments shall be maintained as indicated in the applicable area of each publication.	
	Compliance Statement	YES
7.4.2	Unless otherwise specified, publications may be copied and/or extracts taken from them. As these copies/extracts are not subject to follow-up amendment action, they are not valid for use as a reference document and shall be stamped "FOR INFORMATION ONLY". Contractors shall ensure that any classified documents are provided with the appropriate security, consistent with the provisions of A-SJ-100-001/AS-000.	
	Compliance Statement	YES
7.4.3	The Contractor shall respond to any request for "verification of publication holdings" which may be requested periodically by DND.	
	Compliance Statement	YES
7.5	Management Of DND-Owned Spares	
7.5.2	On receipt of TA approval the Contractor shall, on an as required and as available basis, issue spare parts from this account to units to replace unit equipment returned to the Contractor for repair.	
	Compliance Statement	YES

Item No	Section Text Compliance Statement (CS) Proof of Compliance References (Bid section/para/sub-para etc)	
7.5.3	The Contractor shall be responsible for:	
a.	determining the requirement for DND owned repairable spares,	
b.	obtaining the spares when DND approval is granted,	
c.	maintaining custody of the spares,	
d.	accounting for the spares in an approved manner for use on the Repair and Overhaul (R&O) repair line and for meeting unit equipment demands, and	
e.	for the disposal (when so directed) of the spares in accordance with A-LM-184-001/JS-001.	
	Compliance Statement	YES
7.5.4	Spares shall be used in the following order:	
a.	Government Furnished Overhaul Spares (GFOS);	
b.	Contract Issue Spares (CIS) (if applicable);	
c.	Accountable Advance Spares (AAS) (if applicable); and	
d.	Contractor Furnished Materiel (CFM).	
	Compliance Statement	YES
7.5.5	The Contractor shall be responsible for maintaining custody of repaired spares, accounting for the spares in an approved manner, for items repaired and placed in Contractor stock pending demands from units.	
	Compliance Statement	YES
7.6	Spares Review	
7.6.1	If applicable, in conjunction with the stocktaking schedule, the Contractor shall carry out a review of CIS and GFOS to determine if holdings of any particular item:	
a.	exceed the economic stock retention level;	
b.	have become surplus to requirements as a result of a modification, disposal, obsolescent or transfer of the major equipment;	
c.	are no longer fit for use in the R&O of DND equipment;	
d.	has become surplus to requirement as a result of removal of the end item from the Selection Notice and Priority Summary (SNAPS);	
e.	has become redundant because of a modification change notice, product improvement, etc...;	
f.	is a GFOS item which is a catalogued item which should have been transferred to CIS.	
	Compliance Statement	YES
7.6.2	The Contractor shall contact the RA for disposition instructions in the event it becomes apparent that the Contractor is holding excess stock of spares owned by Canada.	
	Compliance Statement	YES
7.7	Stocktaking	

Item No	Section Text Compliance Statement (CS) Proof of Compliance References (Bid section/para/sub-para etc)	
7.7.1	The Contractor shall initiate and complete a one hundred per cent (100%) manual stocktaking of RMA, RSA, CRPA(CIS), GFOS and AAS as a minimum once every two (2) years in accordance with PART 6 of A-LM-184-001/JS-001.	
	Compliance Statement	YES
7.8	Selection Notice Observation Message (SNOM)	
7.8.1	Contractors wishing to make observations on information contained in the SNAPS, including Maximum Repair Cost (MRC), shall do so by submitting their observations using the Selection Notice Observation Message (SNOM) in accordance with PART 2 of A-LM-184-001/JS-001.	
	Compliance Statement	YES
7.9	Loss Or Damage To DND Materiel	
7.9.1	The Contractor shall report to the NDQAR, or to the RA as applicable, all instances of loss or damage to DND owned materiel in his custody within two (2) working days of confirmation of its discovery.	
	Compliance Statement	YES
7.9.2	The Contractor may be authorized to make repairs to DND-owned equipment on loan. All requests shall be forwarded to the RA for approval. If applicable, if the Contractor is authorized to repair damaged DND materiel, he shall notify the NDQAR before any repair commences to enable adequate quality assurance of the repair.	
	Compliance Statement	YES
7.9.3	Loss or damage of materiel in transit shall be actioned in accordance with Part 8 of A-LM-184-001/JS-001.	
	Compliance Statement	YES
7.10	Scrap - Custody & Disposal	
7.10.1	The Contractor shall safeguard, control, and dispose of the scrap materiel in accordance with Part 7 of A-LM-184-001/JS-001.	
	Compliance Statement	YES
7.11	Preservation And Packaging	
7.11.1	All packaging for items delivered to the CAF shall meet with best commercial packaging standards, meeting environmental conditions and clearly identifying both quantity and part number on both inner pack and outer pack, and comply with the packaging requirements specified in Annex B (SPS), and in D-LM-008-036/SF-000 Department of National Defence Minimum Requirements For Manufacturer's Standard Pack. Further guidance on packaging is included in D-LM-008-001/SF-001 Methods of Packaging and D-LM-008-002/SF-001 Specification for Marking for Storage and Shipment.	
	Compliance Statement	YES
7.11.2	When multiple line items are packed in a single container, a listing of all line items shall be clearly affixed to the outer pack and a separate list provided inside the outer pack detailing the inventory of the larger outer pack.	
	Compliance Statement	YES

Item No	Section Text Compliance Statement (CS) Proof of Compliance References (Bid section/para/sub-para etc)	
7.12	Preservation And Packaging Failure	
7.12.1	Equipment processed through the CFSS damaged due to preservation and packaging failures in shipments shall be reported to the NDQAR using form CF 777, Unsatisfactory Condition Report (UCR), supported by photographs in accordance with CFTO C-02-015-001/AG-000.	
	Compliance Statement	YES
7.12.2	Equipment processed outside of the CFSS damaged due to preservation and packaging failures in shipments shall be reported to the RA using form CF 777, Unsatisfactory Condition Report (UCR), supported by photographs in accordance with CFTO C-02-015-001/AG-000.	
	Compliance Statement	YES
7.13	Reusable Containers	
7.13.1	When it is appropriate and the work is approved by the RA, the Contractor shall inspect, repair and/or repaint reusable containers. If a requirement to repair, replace or provide a reusable container or other packaging materiel has been identified, it will become a charge against the R&O contract at a negotiated rate to be listed in the "basis of payment" and on the repair work order.	
	Compliance Statement	YES
7.13.2	All use of wood or organic materials shall be subject to applicable Canadian and international standards, including International Standards for Phytosanitary Measures (ISPM) No.15, and The Canadian Wood Packaging Certification Program.	
	Compliance Statement	YES
7.14	Transportation	
7.14.1	The Contractor shall be responsible to action all transportation requirements in accordance with PART 8 of A-LM-184-001/JS-001.	
	Compliance Statement	YES
7.15	Customs & Excise	
7.15.1	If the Contractor sub-contracts to an out of country location, the Contractor is responsible for the preparation of all the necessary customs documentations. DND's Customs Brokers shall not be utilized unless specifically authorized in writing by the RA.	
	Compliance Statement	YES
8	MAINTENANCE SUPPORT	
8.1	General	
8.1.1	All maintenance activities shall be tracked within the Defence Resource Management Information System (DRMIS). With the exception of new item delivery from the Contractor to Canada, all support related movement of components between Canada and the Contractor shall be recorded and tracked within DRMIS. The Contractor at the Commodity point at CFB Gagetown shall provide appropriate input information on locally produced forms for DND staff to use to input data into DRMIS.	
	Compliance Statement	YES
8.2	Support Process Concept Overview	
8.2.2	On approval from the TA and the RA (or the CA if the cost exceeds the RA's authority level) the Contractor shall deliver the required components and assemblies to the CFSS as required to sustain or the System availability at or above the required 90% minimum.	

Item No	Section Text Compliance Statement (CS) Proof of Compliance References (Bid section/para/sub-para etc)	
	Compliance Statement	YES
8.2.3	To achieve the timely shipment of consumable items and spare parts to the CAF units the Contractor shall first establish an appropriate inventory at its Commodity Point facility at CFB Gagetown no later than the date of the start of the first training course in Canada.	
	Compliance Statement	YES
8.2.4	The Contractor shall track any new parts cost and applicable shipping and handling costs to include the costs in to the monthly support service invoice.	
	Compliance Statement	YES
8.2.5	When delivered to the CAF units the items become CAF property.	
	Compliance Statement	YES
8.2.6	On receipt of any items returned through the CFSS or any other approved DND delivery process the Contractor shall undertake repairs IAW the terms of the System warranty or this In-Service Support Contract SOW, as applicable.	
	Compliance Statement	YES
8.2.7	On completion of repairs to CAF owned items the Contractor shall place the item in its physical inventory, ready to fill the next order from a CAF unit.	
	Compliance Statement	YES
8.3	R&O Process	
8.3.1	The Contractor shall repair and/or overhaul only those items for which he has received authorization from the Requisition Authority (RA) in accordance with either an established list of pre-authorized repairs or an individual authorization specific to individual components or assemblies that are not on the pre-authorized list at the time the item is received. The Contractor shall conform to such procedures as are advised in this SOW, A-LM-184-001/JS-001, and applicable reference documents/publications related to the Contractor management of DND equipment and stores in its possession. DND reserves the right to exercise surveillance over all applicable aspects of the Contractor's supply operation in Canada. Repair priority shall be "Routine" unless otherwise stipulated	
	Compliance Statement	YES
8.3.2	For complete SUAV system support the R&O work shall be processed IAW A-LM-184-001/JS-001, Special Instructions – Repair and Overhaul Contractors.	
	Compliance Statement	YES
8.3.3	Exception to A-LM-184-001/JS-001:	
8.3.3.1	For repairs conducted at the Contractor Commodity Point facility at CFB Gagetown, when it is expedient to do so, and the Contractor has the appropriate serviceable item in stock, the Contractor representative and the Unit technicians shall, when appropriate, conduct a “Repair by Exchange” process where the unserviceable CAF held items are physically exchanged for serviceable items from the Contractor held stock. This circumvents the process delays inherent in processing returns and shipments through the CFSS. However, all such repair procedures and component exchanges shall still be properly recorded and tracked within DRMIS.	
	Compliance Statement	YES
8.4	R&O Item Receipt	

Item No	Section Text Compliance Statement (CS) Proof of Compliance References (Bid section/para/sub-para etc)	
8.4.1 a. b. c. d. e.	Upon receipt of DND equipment, the Contractor shall: identify the equipment and ensure authority to repair (IAW the pre-authorized repairable list or a specific authorization document from the RA); Open a work order within 48 hours of delivery to Contractor; carry out a physical check to ensure that the item is complete and is in accordance with the accompanying vouchers; complete receipt documentation, including any adjustment transactions, work order number; and action warranty materiel.	
	Compliance Statement	YES
8.4.2	If the Contractor is missing any information or documentation, he shall request it through the RA and/or the TA.	
	Compliance Statement	YES
8.4.3	For those repairs where the basis of payment is other than firm fixed price, and based upon available information and/or inspection of the item, the Contractor shall determine the extent of work required, prepare a cost estimate, and if cost to repair is below the maximum repair cost (MRC), proceed with the repair. Whenever cost to repair threatens to exceed the MRC, the Contractor shall request authority in writing to proceed with the repair from the RA.	
	Compliance Statement	YES
8.4.4	Where it is impossible to determine the cost to repair, the Contractor may be granted authority by the RA to strip the equipment so as to assess its repair and/or overhaul potential and to estimate the costs. Unless otherwise specified, and regardless of the value of the equipment, the cost of the work involved in estimating the repair cost is chargeable to the item whether or not it is subsequently repaired.	
	Compliance Statement	YES
8.5	Discrepancies In Shipments	
8.5.1 a. b. c.	If upon initial inspection, the Contractor identifies equipment as having the same form, fit and function as other equipment, but as being misidentified, the Contractor shall forward a detailed message to the Consignor and to the RA with a recommendation for corrective action. A discrepancy in shipment can consist of any of the following: In-condition; Surplus; or Shortage.	
	Compliance Statement	YES
8.5.2	The Contractor shall action discrepancies in shipments in accordance with the procedures of PART 3 of A-LM-184-001/JS-001, except that the information is passed to the RA for items processed outside of the CFSS	
	Compliance Statement	YES
8.6	Completion Of Work	
8.6.1	On completion of Repair and/or Overhaul, the Contractor shall prepare and transmit a stock holding code (SC) change notification in accordance with PART 2 of A-LM-184-001/JS-001, except that the information is passed to the RA for items processed outside of the CFSS.	

Item No	Section Text Compliance Statement (CS) Proof of Compliance References (Bid section/para/sub-para etc)	
	Compliance Statement	YES
8.6.2	The following "Contractor Certification" shall be stamped on the CFSS Supply Document and signed prior to the Contractor transmitting the SC Change Notification: Contractor Certification I certify that the item(s) listed above have been inspected, tested and conform to all specifications and requirements detailed in the contract or purchase order. Signature _____ Date _____ (Contractor QC)	
	Compliance Statement	YES
8.7	Work Control	
8.7.1	The Contractor shall ensure that the repair of all DND equipment is controlled by a serial numbered work order in accordance with PART 2 of A-LM-184-001/JS-001. Upon completion of work, the work order shall include as a minimum the following:	
a.	a contract serial number against which all costs incurred are chargeable;	
b.	the NATO Stock Number (NSN) and/or Part Number (PN), description, quantity and serial number, if any, of item repaired;	
c.	a cross reference to all Supply Documents. This includes receipt, issues and returns, including scrap activity, finalization of repair, inspection, and final acceptance;	
d.	reference to the applicable technical data;	
e.	details of the work performed;	
f.	a list of all the parts, by part number and description, found unserviceable and requiring repair and/or overhaul, ensuring that the repair scheme is referenced	
g.	a list of parts required, identifying the stores from which issued (eg, CIS, GFOS, AAS or CFM);	
h.	repair cost estimate; and	
i.	the identity of the person opening the work order.	
	Compliance Statement	YES
8.7.2	The Contractor shall provide to the RA, and if applicable to the National Defence Quality Assurance Region (NDQAR) amended as necessary, a list of Contractor personnel authorized to open work orders.	
	Compliance Statement	YES
8.7.3	All repaired items shall be returned to DND in the same part number configuration as it was delivered to the Contractor, unless otherwise authorized in writing by the TA and the RA, and if applicable the Quality Assurance Authority.	
	Compliance Statement	YES

Item No	Section Text Compliance Statement (CS) Proof of Compliance References (Bid section/para/sub-para etc)	
8.7.4	All equipment assemblies, components and kits, after repair, shall have a CF 942 tag/label completed and attached as detailed in Government Publication C-02-005-009/AM-000. The CF 942 tag/label shall also be affixed to the external packaging. Form CF 942 is available both as a tag (CF 942) or label (CF 942A).	
	Compliance Statement	YES
8.8	Annual Repair Forecast – Selection Notice and Priority Summary (SNAPS)	
8.8.1	The contractor shall notify the RA when the receipt for a selected repairable line item exceeds the current (fiscal) year forecast (CYF) in the SNAPS report for items processed through the CFSS, or the Contract repairable list generated by the RA for items processed outside of the CFSS. The contractor shall not induct the line item until written approval is received from the RA or the SNAPS forecast is amended, as applicable.	
	Compliance Statement	YES
8.9	Cost Control	
8.9.1	The Contractor shall monitor the cost of each repair to ensure that total repair costs remain within approved limits. Appropriate management control procedures shall be in place and records maintained. These control procedures and records shall be available for review and/or audit on request.	
	Compliance Statement	YES
8.10	Costing Records	
8.10.1	The Contractor shall prepare forms and maintain records which will provide, to the RA or the NDQAR, as applicable:	
a.	a cost listing, by serial number if applicable, of each item or job lot going through the repair line;	
b.	a detail of the extent of work carried out, in-process inspections completed and materiel embodied at any stage of the repair process;	
c.	the average cost of repair and/or overhaul, by NSN; and	
d.	the total repair cost for an item (NSN), by work order.	
	Compliance Statement	YES
8.11	Maintenance Support	
8.11.1	Minor Repairs	
8.11.1.1	If DND supplied parts are urgently required to effect delivery of Free Flow (components) and are not immediately available from DND, then minor repair may be carried out to the unserviceable part by the Contractor, as approved by the RA who will advise NDQAR accordingly.	
	Compliance Statement	YES
8.11.2	Mobile Repair Parties (MRPs)	
8.11.2.1	The Contractor shall provide an MRP, when tasked and authorized by the RA.	
	Compliance Statement	YES
8.11.2.2	On completion of work the Contractor shall provide the RA with a cost breakdown indicating labour hours by trade, travel expenses, living expenses, etc. Costs shall be all inclusive and shall be an indication of the actual amount being claimed. Travel costs shall not exceed approved TB Guidelines unless pre-approved in writing by the RA prior to undertaking the travel. TB Guidelines are available at http://www.tbs-sct.gc.ca/pubs_pol/hrpubs/TBM_113/td-dv-eng.asp.	

Item No	Section Text Compliance Statement (CS) Proof of Compliance References (Bid section/para/sub-para etc)	
	Compliance Statement	YES
8.11.2.3	If requested, the Contractor shall submit two (2) copies of a monthly progress report covering MRP activities to the RA. The level of detail and format will be stipulated in the individual DND 626 tasking should such a report be deemed to be necessary. (Note: Such a report is rarely called up.)	
	Compliance Statement	YES
8.12	Equipment Turn Around Time (TAT)	
8.12.1	Unless specifically identified within the contract, equipment TAT to a serviceable state shall be achieved as required to meet the System 90% availability rating. TAT is defined as that period of time from "date of receipt to date item is reported serviceable". Repair priority is governed by the SNAPS or by the repairables list provided to the Contractor by the RA, as applicable. The principle of "first-in / first-out" (FIFO), shall be observed whenever possible.	
	Compliance Statement	YES
8.13	Priority Repair Request (PRR)	
8.13.1	The Contractor shall be prepared to satisfy PRRs in an expeditious manner. If the Required Delivery Date (RDD) cannot be met, the Contractor shall advise the originator and the consignee for a more realistic Estimated Delivery Date (EDD). This EDD shall be amended as required until the PRR is satisfied.	
	Compliance Statement	YES
8.14	Special Investigations & Technical Studies (SITs)	
8.14.1	When authorized by the RA, the Contractor shall undertake special investigation and technical studies and shall provide relevant data to these investigations as and when required. The scope of work normally covered under special investigation and technical studies is to cater for equipment not meeting specification standards or due to repetitive failures. This excludes studies and/or investigations which have or will have fleet fitment application.	
	Compliance Statement	YES
8.15	Technical Investigations & Engineering Support (TIES)	
8.15.1	When authorized by the RA, the Contractor shall undertake TIES tasks. This activity includes the provision of System and maintenance support and management services. It includes the requirement analysis and planning to ensure current reliability availability of specifications can be met, the scheduling of maintenance, the identification of spares and support, as well as the development of policies and maintenance procedures. It also includes the contract management activities as well as the validation/acceptance of deliverables when maintenance activity in contracted.	
	Compliance Statement	YES
8.16	Warranty Consideration	
8.16.1	Materiel which has been returned for warranty consideration shall be actioned in accordance with PART 10 of A-LM-184-001/JS-001.	
	Compliance Statement	YES
8.17	Stop Repair Action	

Item No	Section Text Compliance Statement (CS) Proof of Compliance References (Bid section/para/sub-para etc)	
8.17.1	The Contractor shall comply immediately with all stop repair instructions. Detailed procedures are contained in PART 2 of A-LM-184-001/JS-001.	
	Compliance Statement	YES
8.18	Reports	
8.18.1	In addition to any report IAW CDRL PM03, DID PM-03, as required under any work under the other various plans, and as detailed in any specific support service task SOW, the Contractor shall submit an Annual Contractor Held Inventory Report.	
	Compliance Statement	YES
8.18.2	The report, submitted to the RA, shall detail the value of all AAS and GFOS inventory held on March 31. Appendix 1 provides details on how to report this inventory, and Appendix 2 is a sample copy of the report proforma (Standard Form).	
	Compliance Statement	YES

APPENDIX 5 to ANNEX G

CANADIAN ARMY
SMALL UNMANNED AIRCRAFT SYSTEM (SUAS)

DEMONSTRATION FLIGHT PROGRAM EVALUATION

1. The Bidder shall use its own engineering or operational trial flight test program to demonstrate the System capabilities. All mandatory capabilities that can reasonably be demonstrated under the ambient conditions at the demonstration flight facility shall be demonstrated. As a minimum the program shall include the following:

   a. the evaluation of non-flying characteristics and data during ground checks;

   b. at least one (1) long endurance, long range, Technical System Performance Evaluation Flight with appropriate in-flight performance capability demonstrations; and

   c. a series of four (4) System Survivability Demonstration Flights.

2. If required, additional System Performance Evaluation Flights may be conducted at any time during the demonstration flight program.

3. The Technical Performance Evaluation Flight may be before, between, or after any of the four separate Survivability Demonstration flights.

4. The aim of the four (4) Survivability Demonstration flights is to view launch and recovery requirements and characteristics, including pre-flight checks, post-launch system checks, a brief target surveillance task, recovery procedures, post-flight system checks, and any applicable maintenance procedures. The in-flight portion of each demonstration flight should be no more than 30 minutes.

5. If practical, all flights shall be conducted with the same aircraft.

6. In the event of technical difficulties, which prevent demonstration of a mandatory capability the Bidders may have up to 24 hours to resolve the technical issues and demonstrate the capability in a subsequent Performance evaluation flight.

7. In the event of weather constraints or other unplanned circumstances which force the early recovery of a Performance Evaluation Flight, the Bidder may fly up to two (2) additional demonstration flights for technical performance confirmation purposes.

8. Bidders are required to have an overall demonstration flight program schedule, plus appropriate individual test cards for each demonstration flight.

9. The Bidder shall use its own engineering or trial program flight test documentation with any additions required to ensure that they demonstrate all of the criteria to be evaluated.

10. The following table provides an indication of the items which should be demonstrated during ground based/pre-flight activities and during the subsequent flights. The Bidder is free to include additional items in the demonstration program.

Table 1: System Performance Demonstration Checklist

SPS Section	ITEMS TO BE DEMONSTRATED AT THE DFE	Pre-Flight	Performance	Survivability
3.	GENERAL REQUIREMENT			
3.1	Equipment			
3.1.1	The System includes the air vehicles (AVs) and all ground equipment required for AV launch, flight, and recovery.			
4.	HANDLING AND OPERATIONS			
4.1	Handling			
4.1.1	Items (except AVs) that will be manually lifted by CAF personnel have a mass of less than 60 kg /132 lb.			
	Weigh and list the heaviest applicable items.			
4.1.2	Items that will be manually towed, rolled, or skidded into position by CAF personnel have a mass of less than 200 kg /440 lb. (Weigh and list applicable items.)			
	Weigh and list applicable items.			
4.1.3	With the payload required to meet the mission profile, the AV Gross Maximum Take Off Weight (GMTOW) is less than 84 kg /185 lbs.			
	Weigh the AV with long endurance mission payload and fuel load.			
5.	SURVIVABILITY AND ENVIRONMENTAL SUSTAINABILITY			
5.2	Environmental Conditions			
5.2.1	Weather For demonstration purposes only the present ambient conditions as described in the applicable test cards will be observed.			
5.2.2	Water and Moisture			

SPS Section	ITEMS TO BE DEMONSTRATED AT THE DFE	Pre-Flight	Performance	Survivability
5.2.2.1	Installation designs and packaging adequately protect equipment from precipitation, small quantities of water or liquids used during cleaning and handling of equipment, exposure to high humidity, and condensation occurring during changes to the ambient environment.			
	Inspect any sample installations and packaging at the demonstration for suitability. List any shortcomings noted.			
5.2.3	Shock and Vibration			
5.2.3.1 & 5.2.3.2	Installation designs and packaging adequately protect equipment from shock and vibration.			
	Inspect any sample installations and packaging at the demonstration for suitability. List any shortcomings noted.			
6.	MAINTAINABILITY			
6.1	Self Test			
6.1.1	The System includes diagnostic tools that help with operator level troubleshooting/ fault diagnosis activities.			
	Provide a reasonable demonstration of the capability			
6.1.2	The System includes built-in tests the operator uses to detect common system and sub-system failures that could affect control and performance of the AV and control and performance of the payload(s).			
	Provide a reasonable demonstration of the capability			
6.2	Assembly Assistance Measures			
6.2.1	Clear labelling practices plus design features that prevent incorrect assembly of the AV and GCS equipment.			
	Demonstrate during assembly			
8.	AIR SUB-SYSTEM EFFECTIVENESS REQUIREMENTS			
8.1	Endurance Profile			

SPS Section	ITEMS TO BE DEMONSTRATED AT THE DFE	Pre-Flight	Performance	Survivability
8.1.1.	Demonstrate mission endurance while conducting normal flight activities, including operating the transponder and the baseline payload,			
a.	At Sea Level standard temperature conditions;			
	List actual conditions on Test Card			
b.	No wind to assist launch or affect transit;			
	List actual conditions on Test Card			
c.	Clear a obstacle 10 m higher than the launch site ground level at the edge of the 100 m x 100 m launch;			
d.	Perform post launch system checks.			
	If applicable, handover AV to mission operators			
e.	50 km transit from the launch site to the mission operations area;			
	Identify transit timings in the applicable Test Cards. (Other tasks may be conducted during the transit.)			
f.	12 hours continuous coverage of the area of interest using an economical cruise power setting;			
	Conduct ISR performance work while on-station.			
g.	50 km transit from the mission operations area to the recovery team handover site;			
	Identify transit timings in the applicable Test Cards. (Other tasks may be conducted during the transit.)			
h.	If applicable, one (1) handover from the mission operators to the recovery team;			
i.	Conduct one (1) missed approach/wave-off procedures, followed by a successful recovery/landing;			
j.	Fuel reserves for at least an additional 60 minutes of loiter at minimum fuel consumption rate.			
	Measure the fuel remaining in the AV. State the fuel consumption rate during the mission and calculate the theoretical remaining flight time.			
8.2	The AV shall be capable of maintaining an airspeed of at least 115 km/h (62 knots (kt)) for 75 minutes for tracking mobile targets.			
	Demonstration the higher speed cruise during one of the two performance demonstration flights.			
8.3 Wind Conditions. For demonstration purposes only the present ambient conditions as described in the applicable test cards will be observed for sections 8.3. The flight demonstration program is not required to demonstrate any launches or recoveries with tail wind or cross wind conditions.				

SPS Section	ITEMS TO BE DEMONSTRATED AT THE DFE	Pre-Flight	Performance	Survivability
8.4	Restricted Operating Site Conditions. After the demonstration program has been completed Canada will review the telemetry data collected during the launch to determine at what range the data indicates the AV cleared a hypothetical 10 m obstacle during launches and recoveries. The Bidder must provide the telemetry data file and, if applicable, a method for Canada to read and interpret the telemetry data.			
8.5	Lost Link Recovery			
8.5.1	Lost link recovery capability programmed by the operator, including the instructions for the AV to return to an operator specified point and land if the data link is not re-established.			
	Demonstrate Lost Link protocol set-up.			
8.5.1.1	If a lost link situation occurs the AV performs IAW the programmed response.			
	Demonstration if applicable. Due to flight safety considerations the System operators will not intentionally create a lost link situation..			
8.5.1.2	If a lost link situation occurs and the link is not re-established the AV performs IAW the programmed response up to the point of initiating recovery.			
	AV does not violate airspace while returning to the recovery site. Do not intentionally demonstrate a forced landing.			
8.5.2	The System lost link recovery capability shall not command an AV to climb above a ceiling altitude set by the GCS.			
	If a lost link event occurs, collect telemetry data when the link is re-established.			
8.5.3	The AV shall fly autonomously without the requirement for two-way data link communications.			
	If a lost link event occurs, The AV flies under its own control until the data link is re-established.			
8.6	Engine			
8.6.1	Any engine powered AV shall be powered by a Heavy Fuel Engine (HFE) that as a minimum shall operate IAW the SPS with JP5 and JP8 fuel.			
	Demonstrate operation using JP5 and/or JP8 fuel.			
8.7	Payload			
8.7.1.c	Night Vision Goggle (NVG) compatible laser pointer/ illuminator capable of being used to indicate objects or areas of interest to observers with appropriate Night Vision equipment:			
	Demonstrate laser safety measures on the ground. If Canada brings NVGs, demonstrate pointer performance.			

SPS Section	ITEMS TO BE DEMONSTRATED AT THE DFE	Pre-Flight	Performance	Survivability
8.7.1.d	Demonstrate LRF			
	Demonstrate LRF safety measures on the ground. Demonstrate LRF performance. (Compare data with GPS data collected during target resolution and location tests.)			
8.7.3	Camera Zoom.			
8.7.3.1	The EO camera has at least a 10:1 optical zoom.			
	Demonstrate capability during at least one performance flight. Canada will analyse video collected after returning home.			
8.7.3.2	The IR camera has at least a 4:1 optical zoom.			
	Demonstrate capability during at least one performance flight. Canada will analyse video collected after returning home.			
8.7.3.3	The EO camera should have up to an 18:1 optical zoom.			
	Demonstrate capability during at least one performance flight. Canada will analyse video collected after returning home.			
8.7.3.4	The IR camera should have up to a 12.5:1 optical zoom.			
	Demonstrate capability during at least one performance flight. Canada will analyse video collected after returning home.			
8.7.4	- Lock on to stationary targets. - Follow targets manoeuvring at ground speeds of up to 22.2 m/s (80 km/h) for more than five (5) minutes while using a narrow field of view for the camera.			
	Track a moving target. The target shall not exceed local speed limits or 80 km/h, which ever is slower.			
8.7.5	Automatic Identification System (AIS)			
8.7.5.1	An AIS capability detects and relays ship identification and similar information to the GC.			
	If practical, demonstrate AIS capability.			
8.8	Visual Detectability			
8.8.2	The AV shall be equipped with an IR strobe visible to generation III NVG to assist other airspace users to locate the AV during night operations, and to assist recovery crew with locating the AV during recovery.			
	Demonstrate if Canada brings NVGs.			
a.	The IR strobe is controlled by the GCS.			
	Demonstrate			
b.	The IR strobe doesn't emit light visible to the unaided eye.			
	Demonstrate			

SPS Section	ITEMS TO BE DEMONSTRATED AT THE DFE	Pre-Flight	Performance	Survivability
8.8.3	The AV visible light strobe is visible to the unaided eye out to 5 km during clear/excellent visibility night conditions.			
	Demonstrate if practical under ambient conditions.			
8.8.4	Visible light strobe is controlled by the GCS.			
	Demonstrate			
8.9	Aural Detectability .– Demonstration not required.			
8.10	Interoperability – Demonstration not required.			
8.11	Navigation and Position Location			
8.11.1	The System shall use the Global Positioning Satellite (GPS) system for primary navigation and positional information.			
	Demonstrate.			
8.12	Selective Availability/ Anti-Spoofing Module (SAASM) GPS.			
8.12.1	The AV should be upgradeable to use a GPS with SAASM or better capability according to MIL-STD 461 F.			
	Demonstrate if practical.			
8.13	Transponder			
8.13.1	The AV shall be equipped with a transponder. At the minimum the transponder shall include all identification and location capabilities provided by a Mode 3C transponder.			
	Demonstrate Transponder setup.			
8.13.2	The AV should be equipped with a Mode 4 transponder.			
	If applicable, demonstrate Transponder setup and features.			
9.	GROUND SEGMENT			
9.2	Operational Safety			
9.2.1	Terrain Awareness and Warning System (TAWS)			
9.2.1.1	The System shall be equipped with a TAWS. The TAWS should provide visual and audible alarms in the event that the AV violates programmed terrain clearance parameters as a consequence of any instruction issued to the AV by the AV operator, or any situation arising that would result in the AV failing to maintain safe AV-ground separation.			
	Demonstrate setup. Demonstrate in flight performance			
9.2.2	Danger/no-fly zones			
9.2.2.1	The System shall enable the operator to establish operator specified map positional related Danger/No-Fly zones.			
	Demonstrate setup. Demonstrate in flight performance			

SPS Section	ITEMS TO BE DEMONSTRATED AT THE DFE	Pre-Flight	Performance	Survivability
9.2.2.2	The System shall provide the operator with audible and visible warnings if the aircraft flight plan or operator actions would result in the aircraft entering a Danger/No Fly Zone.			
	Demonstrate in flight performance			
9.3	Target tracking			
9.3.1	The System shall enable the CAF GCS operators to have the capability to automatically track objects with the camera as the AV independently moves into the correct location.			
	Demonstrate in flight performance			
9.3.2	The System shall be able to automatically track an object moving at ground speeds of up to 80 km/h while the AV is flying into a 30 km/h headwind.			
	Demonstrate in flight performance			
9.3.3	If the capability to automatically track a moving target is not a built in or programmed function conducted automatically on board of the AV the System shall provide a ground based target tracking capability that provides the appropriate command feedback to the AVs			
	If applicable (i.e.: there is no payload based built-in tracking capability), demonstrate the ground based auto-tracking capability.			
9.4	Flight Data and Mission Recording			
9.4.1	The System includes a flight data recording capability which automatically saves the flight data.			
	Demonstrate			
9.4.2	The flight data recorder interface enables the operators to re-play the flight data for data analysis purposes, and to export the data into a file format readable by standard CAF workstations.			
	Demonstrate			
9.4.3	The System operators can remove all media used for the recording of metadata within ten (10) minutes without the use of any tool.			
	Demonstrate			
9.4.4	The System has the capacity to record and store a minimum of 100 hours of flight metadata.			
	Demonstrate			
9.5	AV Operation			
9.5.1	The GCS provides “real time” AV control and status monitoring.			
	Demonstrate			
9.5.2	The System shall provide the operator station display with AV status monitoring information. (I.E.: Items critical to AV performance such as fuel state, engine, battery, etc.)			
	Demonstrate			

SPS Section	ITEMS TO BE DEMONSTRATED AT THE DFE	Pre-Flight	Performance	Survivability
9.5.3	The System shall provide the operator station with operator tools that include:			
a.	Automatic operator alerts for emergencies; and			
	Demonstrate (if appropriate and safe to do so)			
b.	Electronic checklists and AV status monitoring.			
	Demonstrate (if appropriate and safe to do so)			
9.5.4	The operator station should have operator tools that provide Emergency Troubleshooting Checklists on the graphic user interface			
	Demonstrate if applicable.			
9.6	Target Location Accuracy			
9.6.2	Target geo-location position error shall not exceed 50m Circular Error Probable (CEP) while the AV is 762 m/2,500 ft above ground and at a slant range of 1,000 m/3,280 ft from the target site.			
	Demonstrate			
9.6.3	Target geo-location position standards should be met while the AV is making a single pass past the target area or a single orbit around the target area, with an observation period of no more than 30 seconds.			
	Demonstrate			
9.6.4	Target geo-location position error should be less than 50 m CEP under the conditions of section 9.6.2.			
	Demonstrate			
9.7	Image Quality			
9.7.2	The imagery shall be rated with the aircraft passing directly overhead of the target with the AV operating at an altitude of 2,500 ft AGL, and when passing at a slant range of up to 1,000 m/3,280 ft. (The imagery will be assessed as achieving up to the highest resolution rating achieved between the overhead pass and the pass at a slant angle.).			
9.7.3	Under the conditions at section 9.7.3, when using the EO payload, the GCS display shall demonstrate NIIRS 7 quality imagery.			
	Collect data during flights. Copy to an external media after each flight. Canada will analyse the files in Ottawa after the demonstrations are completed.			
9.7.4	Under the conditions at section 9.7.3, when using the IR payload, the GCS display shall demonstrate NIIRS 7 quality imagery.			
	Collect data during flights. Copy to an external media after each flight. Canada will analyse the files in Ottawa after the demonstrations are completed.			

SPS Section	ITEMS TO BE DEMONSTRATED AT THE DFE	Pre-Flight	Performance	Survivability
9.7.5	Under the conditions at section 9.7.3, when using the EO payload, the GCS display should demonstrate better than NIIRS 7 quality imagery.			
	Collect data during flights. Copy to an external media after each flight. Canada will analyse the files in Ottawa after the demonstrations are completed.			
9.7.6	Under the conditions at section 9.7.2, when using the IR payload, the GCS display should demonstrate better than NIIRS 7 quality imagery.			
	Collect data during flights. Copy to an external media after each flight. Canada will analyse the files in Ottawa after the demonstrations are completed.			
10.	ISR Product Format			
10.1	The System shall have telemetry data from the AV synchronized to the video in a format that enables the CAF GCS to generate imagery IAW STANAG 4609 edition 3 UAS Local Data Set Table 2 format.			
	Collect data during flights. Copy to an external media after each flight. Canada will analyse the files in Ottawa after the demonstrations are completed.			
10.2	The metadata shall also be accessible for technical investigation purposes via the GCS Local Area Network (LAN) interface or as an extracted data file.			
	Demonstrate copying out metadata files.			
11.	COMMUNICATIONS			
11.1	Any Information Technology (IT) equipment provided with the System shall fully conform to current Ethernet Protocol Standards and USB2, USB 3 standards, enabling the passage and receipt of data via readily available compatible non-proprietary equipment. Applicable Institute of Electrical and Electronic Engineers (IEEE) standards may also be included.			
	Demonstrate passing data via the means identified above.			
12.	DATA LINK			
12.1	Encryption			
12.1.1	The airborne telemetry data link shall employ AES 256 encryption to provide secure communication over the data and command and control channels to prevent unauthorized viewing of or interference with the command and control data, and the imagery and metadata/telemetry information.			
	Demonstrate security process.			
12.2	Data Link Line Of Sight (LOS) Range			
12.2.1	While using the SGCS the System shall be capable of operating to a Visual Line-of-Sight (VLOS) range of at least 100 km.			
	Demonstrate			

SPS Section	ITEMS TO BE DEMONSTRATED AT THE DFE	Pre-Flight	Performance	Survivability
12.2.2	Up to the SGCS 100 km range, the System shall be able to control the AV and receive uninterrupted telemetry, control, unpixelated imagery, and metadata information (90% of the time over a 5 minutes period) IAW the contracted System Performance Specifications for as long as the SUAV is within the VLOS.			
	Collect data during flights. Copy to an external media after each flight. Canada will analyse the files in Ottawa after the demonstrations are completed.			
12.2.3	The SGCS should be capable of operating in IAW the specification in 12.2.2 to a VLOS range beyond 100 km. (Up to 185 km/ 100 nautical miles).			
	Collect data during flights. Copy to an external media after each flight. Canada will analyse the files in Ottawa after the demonstrations are completed.			
12.3	Remote Video Terminal Compatibility			
12.3.1	The SUAV data link shall be compatible with the (ROVER 5i and ROVER 6) CAF Remote Video Terminal to correctly display the video and meta data information, including as a minimum the Time Stamp and the Frame Center Latitude and Longitude.			
	Demonstrate compatibility with ROVER 5i if Canada provides a ROVER 5i during the demonstration flights.			
12.4	Directional Antenna Control			
12.4.1	The ground data link antennae shall automatically track the AV.			
	Demonstrate			
12.5	Frequency Management			
12.5.1	The System data links shall use one or more of the L, S or C Bands.			
	Provide a list of all frequencies the System is capable of using.			
12.5.3	Frequency Selection			
12.5.3.1	The System data links shall use one or more of the L, S or C Bands.			
	Demonstrate changing frequencies			
12.5.3.2	The System shall be capable of frequency selection to allow multiple AV operations in the same airspace without electronic interference between the AVs and/or interference between the GCS sets controlling the AVs.			
	Demonstrate			
12.5.3.3	During pre-launch mission preparations the operator shall be able to change the specific frequencies used within a frequency band without physically changing components.			
	Demonstrate			

ANNEX G, APPENDIX 6

CANADIAN ARMY
SMALL UNMANNED AIRCRAFT SYSTEM (SUAS)

BIDDER PROPOSAL CHECKLIST

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The Bidder may use the following table/list as a cross check to see that all components of the technical Bid requirement are included in its proposal.

Table 1: Technical Evaluation Deliverables from Annex C, Statement of Work, required with the Bid Proposal

SOW Item	Description / Comments	Check
1.5.3	Electronic files can be opened by the appropriate application from the following: Microsoft (MS) Word 2003, MS Excel 2003, Adobe Acrobat 9.0, Adobe Reader.(Or, if applicable, MS Access 2003, MS Project 2003 and MS PowerPoint2003)	
4.1.1	Draft Project Management Plan IAW CDRL PM01, DID PM-01.	
4.4.1	Draft Contractor Risk Management Plan (CRMP), delivered IAW CDRL PM04, DID PM-04	
5.4.2.1	Product Description Package (PDP), including documentation to support maturity claims, IAW CDRL AW001, DID AW-001.	
5.4.3.1	System Safety Assessment (SSA) / Functional Hazard Assessment (FHA) IAW CDRL AW002, DID AW-002, if these documents already exist.	
5.4.4.1	SUAS Flight Manuals (aircraft operation and maintenance instructions) IAW CDRL AW003, DID AW-003.	
5.4.5.1	Draft SUAS Special Type Certificate Data Sheet (SS/TCDS) IAW CDRL AW004, DID AW-004	
5.4.6.1	SUAS Established Safety Record IAW CDRL AW005, DID AW-005	
5.5.3.1	Draft SUAV Identification Markings Drawings IAW CDRL AW006, DID AW-006	
5.6.2.1	Draft Airworthiness Management Plan (AMP) IAW CDRL AW008, DID AW-008	

SOW Item	Description / Comments	Check
6.4.1	The Contractor shall identify the characteristics and performance specifications of any additional or special purpose payloads available for the System.	
6.6.3	The Contractor shall provide Canada adequate documented evidence of the Contractor's CM Plan(s) IAW CDRL SE003, DID SE-003	
6.8.1	If the Radio Equipment for the System is not already certified for use in Canada, DND 552, Application For Frequency Supportability, IAW CDRL SE004, DID SE-004, or the United States Department of Defence equivalent. One set of documents for each of the following	
	Transmitter Equipment Characteristics,	
	Receiver Equipment Characteristics, and	
	Antenna Equipment Characteristics.	
6.9.1	The Contractor shall provide an Acceptance Test Plan (ATP) IAW CDRL SE005, DID SE-005. (Further guidance is provided in Annex E, Appendix 2.)	
7.2.1	Draft ILS Plan IAW CDRL ILS001, DID ILS-001	
7.8.1	Draft Maintenance Plan IAW CDRL ILS004 and DID, ILS-004	
7.9.1	Draft Recommended Spare Parts List (RSPL) IAW CDRL ILS005, ILS ILS-005.	
7.15.1	Proof of an existing Publication Management Plan which at the least is IAW CDRL ILS006 and DID ILS-006	
7.18.2	If applicable the Contractor shall provide an STTE list IAW CDRL ILS008 and DID ILS-008	
7.19.2.1	Training Plan IAW CDRL T001, DID Trg-001	
7.19.2.1 7.19.4.2	Recommended Training Materials List (RTML) IAW CDRL T002, DID Trg-002	
7.19.9.1	Summary of Contractor Operator Qualifications & Authorizations, SUAS Specific training, training standards and currency requirements for Contractor staff as per CDRL ILS009, DID ILS-009	

Table 2: Annex G Bid Evaluation Deliverables required with the Bid Proposal

Appendix/Item	Description / Comments	Check
G1	Proof of Compliance and Acceptance Test Plan and Reports	
G2	SPS Compliance and Technical Evaluation Matrix	
G3	SOW Compliance Evaluation Matrix - Acquisition	
G4	SOW Compliance Evaluation Matrix - In-Service Support	
G5	Proposed Demonstration Flight Schedule/Test Cards	

ANNEX H

FEDERAL CONTRACTORS PROGRAM FOR EMPLOYMENT EQUITY - CERTIFICATION

I, the Bidder, by submitting the present information to the Contracting Authority, certify that the information provided is true as of the date indicated below. The certifications provided to Canada are subject to verification at all times. I understand that Canada will declare a bid non-responsive, or will declare a contractor in default, if a certification is found to be untrue, whether during the bid evaluation period or during the contract period. Canada will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply with such request by Canada will also render the bid non-responsive or will constitute a default under the Contract.

For further information on the Federal Contractors Program for Employment Equity visit HRSDC-Labour's website.

Date:_____(YYYY/MM/DD) (If left blank, the date will be deemed to be the bid solicitation closing date.)

Complete both A and B.

A. Check only one of the following:

( ) A1. The Bidder certifies having no work force in Canada.

( ) A2. The Bidder certifies being a public sector employer.

( ) A3. The Bidder certifies being a federally regulated employer being subject to the *Employment Equity Act.*

( ) A4. The Bidder certifies having a combined work force in Canada of less than 100 employees (combined work force includes: permanent full-time, permanent part-time and temporary employees [temporary employees only includes those who have worked 12 weeks or more during a calendar year and who are not full-time students]).

A5. The Bidder has a combined workforce in Canada of 100 or more employees; and

( ) A5.1. The Bidder certifies already having a valid and current Agreement to Implement Employment Equity (AIEE) in place with HRSDC-Labour.

OR

( ) A5.2. The Bidder certifies having submitted the Agreement to Implement Employment Equity (LAB1168) to HRSDC-Labour. As this is a condition to contract award, proceed to completing the form Agreement to Implement Employment Equity (LAB1168), duly signing it, and transmit it to HRSDC-Labour.

B. Check only one of the following:

( ) B1. The Bidder is not a Joint Venture.

OR

( ) B2. The Bidder is a Joint Venture and each member of the Joint Venture must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification. (Refer to the Joint Venture section of the Standard Instructions)

REQUEST FOR PROPOSAL

SMALL UNMANNED AIRCRAFT SYSTEMS

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PART 1 - GENERAL INFORMATION

1.0 Security Requirement

There is no security requirement associated with this requirement.

2.0 Requirement - Small Unmanned Aircraft Systems (SUAS)

This bid solicitation is being issued to satisfy the requirement of the Department of National Defence of Canada for the Small Unmanned Aircraft System (SUAS). It is intended to result in the award of two (2) contracts to one successful Bidder: the SUAS Acquisition Contract (SUAS-A) and the SUAS In Service Support Contract (SUAS-S).

The SUAS-A Contract will be for a period of three (3) years plus two (2) one (1) year options for the purchase two (2) SUAS Systems along with associated preliminary Integrated Logistics Support (ILS) such as technical documentation, training and initial provisioning of spares. There will be an option to purchase additional two (2) SUAS Systems, Ground Control System (GCS), spares and services. All prices under the SUAS-A Contract will be firm fixed.

The SUAS-S Contract will be for the In-Service Support (ISS), spares parts and Improvement Activities for a period of seven (7) years plus five (5) one (1) year irrevocable options. The In Service Support Scope of Work includes: Program Management Services, Engineering and Technical Support Services, Materiel Support, Maintenance Support, Airworthiness Support and Configuration Management Support. All prices under the SUAS-S Contract will be firm fixed for the first year subsequent years subject to adjustment as identified in the SUAS-S Contract.

3.0 Debriefings

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

PART 2 - BIDDER INSTRUCTIONS

1.0 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual (http://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) issued by Public Works and Government Services Canada.

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

The 2003 (2013-06-01) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

1.1 SACC Manual Clauses

A9130T (2011-05-16) Controlled Goods Program
B1006T (2011-05-06) Condition of Material

2.0. Submission of Bids

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

For Bids with technical information that required Government to Government information exchanger, the bidders shall ensure the information is located in the foreign country Embassy located in Ottawa Canada and available to the Bid Evaluation Team by the date and time indicated on page 1 of the bid solicitation.

Due to the nature of the bid solicitation, bids transmitted by facsimile to PWGSC will not be accepted.

3.0 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than fifteen (15) calendar days before the bid closing date. Enquiries received after that time may not be answered.

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

4.0 Applicable Laws

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

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of

their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the Bidders.

PART 3 - BID PREPARATION INSTRUCTIONS

1.0 Bid Structure

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

Section 1: Technical Bid (2 hard copies) and 2 soft copies on CD or 1 DVD
Section 2: Financial Bid (2 hard copies) and 2 soft copies on CD or 1 DVD
Section 3: Certification 2 hard copies

If there is a discrepancy between the wording of the soft copy and the hard copy, the wording of the hard copy will have priority over the wording of the soft copy.

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

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

(a) use 8.5 x 11 inch paper;
(b) use numbering system that corresponds to the bid solicitation;
(c) include a title page at the beginning of each volume of the bid that includes the title, date, solicitation number, bidder's name and address and contact information of the representative;
(d) include a table of contents; and
(e) include a glossary of all abbreviations and acronyms used;

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process Policy on Green Procurement (http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html). To assist Canada in reaching its objectives, bidders are encouraged to use paper containing fibre certified as originating from a sustainably-managed forest and/or containing a minimum of 30% recycled content.

Section I: Technical Bid

In their technical bid, bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work. The bidders must submit a technical bid in accordance with Annex G - Technical Evaluation.

Section II: Financial Bid

Bidders must submit their financial bid in accordance with Annex A - Basis of Payment. The total amount of Goods and Services Tax (GST) or harmonized Sales Tax (HST) must be shown separately, if applicable.

Section III: Certification Bid

Bidders must submit certification required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

1.0 Evaluation Procedures

(a) Bids will be assessed in accordance with the entire requirement of the bid solicitation

(b) An evaluation team composed of representatives of Canada will evaluate the proposal(s) on behalf of Canada. Consultants may assist the evaluation team in its work and will sign a non-disclosure agreement preventing conflict of interest situations from occurring.

(c) The evaluation team will determine first if there are three (3) or more bids with a valid Canadian Content certification. In that event, the evaluation process will be limited to the bids with the certification; otherwise, all bids will be evaluated. If some of the bids with a valid certification are declared non-responsive, or are withdrawn, and less than three responsive bids with a valid certification remain, the evaluation will continue among those bids with a valid certification. If all bids with a valid certification are subsequently declared non-responsive, or are withdrawn, then all the other bids received will be evaluated.

1.1 Technical Evaluation

1.1.1 Mandatory Technical Criteria

Mandatory and point rated technical criteria for the SUAS is provided in Annex G – Technical Evaluation Plan.

1.2 Financial Evaluation

The Financial Evaluation for the Acquisition and In-Service Support of the SUAS is in accordance with the following:

(a) Annex A - Basis of Payment (Financial Evaluation); and

(b) SACC Manual clause A9033T (2012-07-16) Financial Capability

2.0 Basis Of Selection

SACC Manual Clause A0027T (2012-07-16) Basis of Selection - Highest Combined Rating of Technical Merit and Price

1. To be declared responsive, a bid must:

   a. comply with all the requirements of the bid solicitation;
   b. meet all mandatory criteria; and
   c. obtain the required minimum of 500 points out of 1,300 points specified in Annex G, Appendix 2, for the technical evaluation criteria which are subject to point rating.

2. The selection will be based on the highest responsive combined rating of technical merit and price. The ratio will be 70 % for the technical merit and 30% for the price.

3. To establish the technical merit score, the overall technical score for each responsive bid will be determined as follows: total number of points obtained / maximum number of points available multiplied by the ratio of 70%.

4. To establish the pricing score, each responsive bid will be prorated against the lowest evaluated price and multiplied by the ratio of 30%.

5. For each responsive bid, the technical merit score and the pricing score will be added to determine its combined rating.

6. Neither the responsive bid obtaining the highest technical score nor the one with the lowest evaluated price will necessarily be accepted. The responsive bid with the highest combined rating of technical merit and price will be recommended for award of a contract.

The table below illustrates an example where all three bids are responsive and the selection of the contractor is determined by a 70/30 ratio of technical merit and price, respectively. The total available points equal 1,300 and the lowest evaluated price is $50,000.

Bids ranking example: -

The following example, which assumes a scenario involving three (3) bids, demonstrates how the Technical merit of 70% and Price of 30%, referred to above, will be applied:

Bidder	Bidder 1	Bidder 2	Bidder 3
Overall Technical Score	685/1300	638/1300	662/1300
Bid Evaluation Price	$60,000.00	$55,000.00	$50,000.00
Calculation	Bidder 1	Bidder 2	Bidder 3
Technical Merit Score	685/1300 x 70 = 36.88	638/1300 x 70 = 34.35	662/1300 x 70 = 35.65
Pricing Score	50/60 X 30 = 25.00	50/55 X 30 = 27.27	50/50 X 30 = 30
Combined Rating	61.88	61.62	65.65
Overall Rating	2nd	3rd	1st

3.0 Demonstration Flight Evaluation (DFE)

3.1 This solicitation includes a requirement for Bidders to undergo a hands-on evaluation of their proposed SUAS. The purpose of the DFE is to validate the performance scores in Appendix 2 to Annex G. Canada may, as a result of the DFE, reduce the score of the Bidder on any rated requirement, if the evaluation indicates that the score provided to the Bidder on the basis of the bid evaluation is not validated by the DFE. This overall activity is titled the Demonstration Flight Evaluation (DFE).

3.2 Bidders must have a contractor owned SUAS which will be used for the DFE activities. Bidders must be prepared to support the SUAS throughout the demonstration period.

3.3 Bidder must demonstrate some features of their proposed SUAS (Bid) during the DFE at Annex G Evaluation Appendix 2. Despite the Technical evaluation, if Canada determines during the DFE that the Bidder's proposed solution does not meet the mandatory requirements of this bid solicitation, the bidders will have twenty -four (24) hours to correct any configuration discrepancies and equipment shortages.

3.4 Information regarding the proposed dates, timings, locations and contact information for the subsequent SUAS DFE shall be provided with the bid, to enable Canada to initiate the Visit Clearance Request process. A more detailed submission concerning the dates and location for the DFE will be provided no later than four weeks after bid closing. The invitation to participate in a DFE will be directed to the point of contact in the bid.

3.5 Canada reserves the right to amend the details of the DFE, such as dates and times when applicable. Canada will provide notice of change no fewer than 10 working days before the scheduled start of the DFE.

3.6 The bidder is responsible for all of its costs associated with the conduct of the DFE. Canada will be responsible for its own travel, living, salary and associated costs during the DFE.

3.7 During the DFE the bidder will be required to have all necessary equipment and repair parts for any standard operator maintenance tasks on site.

PART 5 - CERTIFICATIONS

Bidders must provide the required certifications and documentation to be awarded a contract.

The certifications provided by bidders to Canada are subject to verification by Canada at all times. Canada will declare a bid non-responsive, or will declare a contractor in default, if any certification made by the Bidder is found to be untrue whether during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply with this request will also render the bid non-responsive or will constitute a default under the Contract.

1. Mandatory Certifications Required Precedent to Contract Award

1.1 Code of Conduct and Certifications - Related documentation

By submitting a bid, the Bidder certifies that the Bidder and its affiliates are in compliance with the provisions as stated in Section 01 Code of Conduct and Certifications - Bid of Standard Instructions 2003. The related documentation therein required will assist Canada in confirming that the certifications are true.

1.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list (http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml) available from Human Resources and Skills Development Canada (HRSDC) – Labour's website.

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of contract award.

Canada will also have the right to terminate the Contract for default if a Contractor, or any member of the Contractor if the Contractor is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list during the period of the Contract.

The Bidder must provide the Contracting Authority with a completed Annex H, Federal Contractors Program for Employment Equity - Certification, before contract award. If the Bidder is a Joint Venture, the Bidder must provide the Contracting Authority with a completed Annex H, Federal Contractors Program for Employment Equity - Certification, for each member of the Joint Venture.

2. Additional Certifications Precedent to Contract Award

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

2.1 Canadian Content Certification

SACC Manual clause A3050T 2010-01-11 Canadian Content Definition

2.2 Status and Availability of Resources

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

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

2.3 Pre-Certified Radio Frequency (RF) Equipment

If the Bidder's RF equipment is already certified in Canada, Bidders must provide via email, a copy of their Industry Canada Technical Acceptance Certificate (T AC) to the Contracting Authority as early as possible, but no later than 02:00 PM Eastern Daylight Saving Time, on the date indicated on page 1 of the bid solicitation.

If the Bidder's RF equipment is in use by the United States military, Bidder's must provide a copy of US Department of Defence (DoD) Form 1494 within the same time frame as the TAC. If either of these conditions is applicable, Bidders are not required to provide the information required to complete form DND 552.

PART 6 - RESULTING CONTRACT CLAUSES– ACQUISITION CONTRACT

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Annexes:

A Basis of Payment (Financial Evaluation)

B System Performance Specification (SPS)

C SUAS-A Statement of Work (SOW)

D Not Applicable

E Data Deliverables
Appendix 1 Contract Data Requirements List
Appendix 2 Data Item Descriptions

F References

Resulting SUAS Acquisition Contract Clauses

1. Security Requirement

There is no security requirement associated with the requirement.

2 Statement of work

2.1. The Contractor must supply to the Department of National Defence the goods and services described in the Contract in accordance with, and at the prices set out in, the Contract.

2.2. The Contractor must provide a firm quantity of SUAS's totalling two (2) system with accessories, and associated preliminary Integrated Logistics Support (ILS) such as technical documentation, training and initial provisioning of spares.

2.3. Canada has the option to purchase up to two (2) additional SUAS Systems, GCS with associated spare parts and support equipment in accordance with contract article 2.0.

2.4. Without limiting any of its other obligations under this Contract, the Contractor must:

a. Perform the Work in accordance with Annex C Statement Of Work of the Contract.

2.5. The Contractor agrees to accept and be bound by Canada's interpretation of the meaning of the specifications.

The SUAS supplied to the Department of National Defence must be the same model as used by the Contractor for the Demonstration Flight Evaluation (DFE).

3. Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual issued by Public Works and Government Services Canada (PWGSC).

3.1. General Conditions

SACC Manual clause 2010A	2013-04-25, General Conditions - Medium Complexity - Goods, apply to and form part of the Contract;

4. Term of Contract

The period of the contract is from date of contract till _____. (Date to be filled in at Contract Award.)

4.1 Delivery of SUAS Acquisition

The complete delivery of all initial SUASs which includes initial spare parts and training must be received on or before _____. (NOTE: Canada to insert, at contract award final delivery in months from contract award date.)

4.2 Option to Extend the Contract

The Contractor hereby grants to Canada an irrevocable option to extend the term of the contract, for two (2) one (1) year options and for the purchase of additional SUAS System, GCS, launch and recovery equipment, spare parts and services. This option may be exercised in whole or in multiple purchases provided that the aggregate of all purchases does not exceed the quantities stipulated in Annex A Basis of Payment. The exercise(s) of this option may only be done by the Contracting Authority through contract amendment(s). The Contractor agrees that it will be paid in accordance with the same conditions and at the prices stated in the Contract. The purchases are on an if, as, and when requested basis and Canada makes no representation that it will exercise any part of this option.

5. Authorities

5.1. Contracting Authority

The Contracting Authority for the Contract is:

Mr. Brent Sprigings
Supply Team Leader
Public Works and Government Services Canada
Acquisitions Branch
Defence Communication Division
8C2 Place du Portage, Phase III
11 Laurier Street
Gatineau, Quebec
K1A OS5

Telephone: (819) 956-7889
Facsimile: (819) 956-0636
E-mail address: brent.sprigings@pwgsc.gc.ca

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

5.2. Requisitioning Authority or Procurement Authority

The Procurement Authority, also called Requisitioning Authority, for the Contract is:

Name Mr Stephan Ayotte, DLP 5-4-1

Address	Directorate of Land Procurement 5 National Defence Headquarters MGen George R. Pearkes Building 101 Colonel By Drive Ottawa, ON, K1A 0K2
Telephone:	(819) 994-4213
Facsimile:	(819) 994-6610
E-mail address:	Stephan.Ayotte@forces.gc.ca

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

5.3. Project Manager and Technical Authority

The Deputy Project Manager and Technical Authority for the Contract is:

Name

Address	Directorate of Land Command System Program Management National Defence Headquarters MGen George R. Pearkes Building 101 Colonel By Drive Ottawa, ON, K1A 0K2
Telephone:	(819) 994-
Facsimile:	(819) 994-
E-mail address:	@forces.gc.ca

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

5.4. Contractor's Representative(s)

The Contractor has appointed

Name:

Address:

Telephone:
Facsimile:
E-mail address:

(NOTE: Bidders to insert representative) as the only point of contact(s) for all enquiries or issues raised by the Consignees or the Contracting Authority during the execution of the work.

6. Payment

6.1. Basis of Payment

In consideration of the Contractor satisfactorily completing its obligations under the Contract, the Contractor will be paid a Firm Price in accordance with the Basis of Payment in Annex A, for all items identified for a cost of $_____ (NOTE: Canada to insert the amount at contract award). The Contractor shall be paid firm unit prices in the Contracted funds, DDP Delivered Duty Paid Incoterms 2000, including any applicable Customs/Duties, GST/HST Extra (if applicable).

6.1.2 Limitation of Price

SACC Manual clause C6000C (2011-05-16) Limitation of Price

6.2 Limitation of Expenditure

Canada's total liability to the Contractor under the Contract must not exceed $_____ (NOTE: Canada to insert the amount at contract award). Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

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

(a) When it is 75 percent committed, or
(b) Four (4) months before the contract expiry date, or
(c) As soon as the Contractor considers that the contract funds provided are inadequate for the completion of the Work, whichever comes first.

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

6.3 Multiple Payments SACC Manual clause H1001C (2008-05-12)

6.4 SACC Manual Clauses

C0305C (2008-05-12) Cost Submission
C0705C (2010-01-11) Discretionary Audit
C2000C (2007-11-30) Taxes Foreign - based Contractor
C2604C (2013-04-25) Customs Duties, Excise Taxes and GST/HST- non-resident

6.5 Economic Price Adjustment

The prices applicable for a coming year will be calculated during the last month of the preceding year for which the Contract had firm prices and will be the firm prices from that preceding year adjusted on account of fluctuations in the Canadian economy over the most recent consecutive 12 months period for which economic indicators are available. The adjusted Price(s) for the coming year shall remain fixed for that period except for the condition at paragraph 6.6.6. In the Contract, a "year" is a period from Contract Starting Date Anniversary to next Contract Starting Date Anniversary minus 1 day. Economic price adjustments will be done as per the following.

6.5.1. Firm Price:

The prices for a coming year shall not exceed the lesser of:

a) Price indexation:
The economic indicator that must be used to account for the actual fluctuations in the economy is the Canadian Consumer Price Index (CPI). For purposes of this article, the most recent Statistics Canada monthly Catalogue "62-001-X" CPI will be used. The relevant CPI shall be from the Statistical Tables, Table 1, namely "The Consumer Price Index, major components and special aggregates, Canada, not seasonally adjusted". The CPI for "All Items (2002=100)" shall be used under column "Percentage change (month z) 201y from (month z) 201x". The indexation is calculated as follows:

i) Percentage change = "the CPI Percentage change (month z) 201y from (month z) 201x";

ii) Firm Price (s) (FP) applicable for the coming 12-month period = The FP(s) for the preceding 12-month period of the contract multiplied by '(1 + "Percentage change")'; or

iii) FP(s) applicable for the coming 12-month period will be rounded up to 2 decimals (Example: $2.571 or $2.579 will be rounded up to $2.58);

or

b) the Contractor current Commercial Published Price List (CPPL), less discount (s) for the year in question.

6.5.2 Adjustments

There will be no adjustments made to the prices contained in the Annex A Basis of Payment that results in a price increase for equipment for the first **three (3) years**.

6.5.3 Economic price adjustments (either upwards or downwards) shall be limited of a maximum of 5% of the previous year's price(s). In the event the change in the chosen index is negative, the price(s) in effect will be adjusted downward accordingly. Economic price adjustments shall be calculated over a consecutive 12 months period.

6.5.4 If the CPI referred to in articles 6.6.1 and 6.6.2 is discontinued, or if the basis for reporting the index is changed from that in existence on or after the award date of the Contract, the Minister shall immediately thereafter establish replacement indices, or formulate adjustments, consistent with the intent of those set forth in these articles.

6.5.5 Should the Contractor publish or publicly announce a price decrease, it shall provide the benefit of the decrease to Canada.

7. Invoicing Instructions

The Contractor must submit invoices in accordance with the information required in Section 10 of SACC 2010A (2013-04-25), General Conditions - Goods (Medium Complexity). Claims cannot be submitted until all the work identified in the claim is completed.

7.1 The invoice must contain the following information:

a) date;
b) name and address of consignee;
c) item/reference number, deliverable and/or quantity or description of work;
d) contract/purchase order number and financial codes;
e) all separate charges detailed individually;
f) the amount invoiced;
g) the Client Reference Number (CRN);
h) the Contractor's Vendor Code or Procurement Business Number (PB); and
i) all invoices must have original signatures and be stamped as original.

7.2 Invoices must be distributed as follows:

a) The original and one (1) copy must be forwarded for certification and payment to the following address:

Directorate of Land Procurement 5

National Defence Headquarters
MGen George R. Pearkes Building
101 Colonel By Drive
Ottawa, ON K1A OK2
Attention: Stephan Ayotte

b) One (1) copy must be forwarded to the "Consignee" identified in this document; and

c) One (1) copy must be forwarded to the Contracting Authority identified under section entitled "Authorities" of the Contract.

8. Certification

8.1 Compliance

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

8.2 Federal Contractors Program for Employment Equity - Default by the Contractor

The Contractor understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Contractor and HRSDC-Labour, the AIEE must remain valid during the entire period of the Contract. If the AIEE becomes invalid, the name of the Contractor will be added to the “FCP Limited Eligibility to Bid” list. The imposition of such a sanction by HRSDC will constitute the Contractor in default as per the terms of the Contract.

9. Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

10. Priority of Documents

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

(a) the Articles of Agreement;
(b) Annex B Small Unmanned Aircraft Systems (SUAS) Performance Specifications;
(c) Annex C Statement of Work; and
(d) the Contractor's bid solicitation, annexes and appendixes dated _____ (NOTE: Canada to insert date of bid at contract award.)

11. Defence Contract

SACC Manual clause A9006C (2012-07-16) Defence Contract

12. SACC Manual Clauses

4001	(2013-01-28) Hardware Purchase, Lease and Maintenance
4002	(2010-08-16) License Software
4004	(2013-04-25) Maintenance and Support Services for Licenced software
A7017C	(2008-05-12) Replacement of Specific Individuals Canadian Contractor
A9006C	(2008-05-12) Defence Contract
A9019C	(2011-05-16) Hazardous Waste Disposal
A9062C	(2011-05-16) Canadian Forces Site Regulations
A9117C	(2007-11-30) T1204 - Direct Request by Customer Department
A9131C	(2011-05-16) Controlled Goods Program
B1204C	(2011-05-16) Shelf Life
B1501C	(2006-06-16) Electrical Equipment
B1505C	(2006-06-16) Shipment of Hazardous Materials
B4055C	(2008-05-12) Material Change Notice
B4057C	(2008-05-12) Technical Publications - Manuals
B4060C	(2011-05-16) Controlled Goods
B6802C	(2007-11-30) Government Property
B7500C	(2006-06-16) Excess Goods
B9028C	(2007-05-25) Access to Facilities and Equipment
C2000C	(2007-11-30) Taxes - Foreign Based Contractor
C2608C	(2012-07-16) Canadian Customs Documentation
C4001C	(2010-01-11) Travel and Living Expenses
C6000C	(2011-05-16) Limitation of Price
D2000C	(2007-11-30) Marking
D2001C	(2007-11-30) Labelling
D2017C	(2008-05-12) Bar Coding – Material Marking
D3010C	(2012-07-16) Dangerous Goods/Hazardous Products
D3014C	(2007-11-30) Transportation of Dangerous Goods/Hazardous Products
D3015C	(2007-11-30) Dangerous Goods/Hazardous Products
D3018C	(2007-11-30) Preparation for Delivery
D4001C	(2008-12-12) Shipping Instruction, Delivery at Destination
D5328C	(2007-11-30) Inspection and Acceptance
D5510C	(2012-07-16) Quality Assurance Authority (DND) - Canadian-based Contractor
D5515C	(2010-01-11) Quality Assurance (DND) - Foreign based and US
D5540C	(2010-08-16) ISO 9001:2008 Quality Management Systems -Req'ments(QAC Q)
D5604C	(2008-12-12) Release Documents (DND) - Foreign-based Contractor; or
D5605C	(2010-01-11) Release Documents (DND) - United States-based Contractor
D5606C	(2012-07-16) Release Documents (DND) - Canadian-based Contractor
D6009C	(2013-04-25) Shipping Instructions – Delivery and Destination Schedules Unknown

D6010C (2007-11-30) Palletization
D9002C (2007-11-30) Incomplete Assemblies
G1005C (2008-05-12) Insurance
H4500C (2010-01-11) Lien - Section 427 of the Bank Act (Canadian-based Suppliers)
K3030C (2010-01-11) License to Material Subject to Copyright

Goods must be consigned to the destination specified in the Contract and delivered: Delivered Duty Paid (DDP) Edmonton, Alberta Incoterms 2000 for shipments from a commercial contractor.

PART 7 - RESULTING CONTRACT CLAUSES - IN-SERVICE SUPPORT CONTRACT

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F References

1. Security Requirement

There is no security requirement associated with the requirement.

2. Statement of work

The Contractor must supply to the Department of National Defence, Small Unmanned Aircraft Systems In Service Support (SUAS-S) in accordance with the terms and conditions of the Contract. The SUAS-S Contract includes: Program Management, Technical Investigations and Engineering Support, Materiel Support, Maintenance Support (including In Plant Repair and Overhaul), Configuration Management, Technical Data Management, Training Support, storage of spare SUAS parts and consumable supplies, Airworthiness Support and spares provisioning.

With the SUAS Improvement Activities, the Contractor must provide: Engineering Services for DND initiated Improvement Activities consisting of incremental design and implementation of improvements to the initial SUAS configuration, on an if, as, and when requested basis.

Without limiting any of its other obligations under this Contract, the Contractor must:

a. Perform the Work in accordance with Annex A and Annex D of the Contract.

The Contractor agrees to accept and be bound by Canada's interpretation of the meaning of the specifications.

Operational Availability (OA) of 90% shall be expressed as follows:

OA = (EAH - AUH) / (EAH), where:

EAH = Expected Availability Hours (h) – Scheduled flight hours IAW mission requirements for each quarter for each Systems not covered under separate support task.

AUH= Actual Unavailability Hours (h) - Period of time from when a defect / deficiency report is submitted to the Contractor and prevents planned activity to proceed, until the System is returned to the user unit line in a serviceable condition.

2.1 Work Authorization (WA)

This Contract contains the requirement for the Department of National Defence (DND) to authorize the Contractor to perform work on an if, as, and when requested basis using the terms and conditions of the contract. DND will issue a different types of work authorizations such as Selection Notice and Priority Summary (SNAPS), Repair Material Request (RMR), DND626 Task Authorization and Spare Parts Order (SPO) to authorize the work to be performed.

2.2 Approval limitation of WAs:

2.2.1 SNAPS & RMR Limit:

DND has full authority to assign Repair work (SNAPS & RMR) to the Contractor. The approval of work by DND will be in accordance with the relevant section of A-LM-184-001/JS-001 Special instructions for Repair and Overhaul Contractors.

2.2.2 Spare Parts Orders (SPO) Limit:

DND is not authorized to issue SPO. The CA will approve all SPOs.

2.2.3 Task Authorization Limit:

DND has individual Task Authorization up to a limit of $50,000.00 CAN, Goods and Services Tax or Harmonized Sales Tax included, inclusive of any revisions. Any task authorization to be issued in excess of that limit must be authorized by the CA before issuance.

2.2.4 Task Authorization & SPO authorization process:

The process to be followed in the issuance of Task Authorization & SPO is as follows:

i. The Technical Authority prepares a Statement of Work (SOW) describing the work;
ii. The DND Requisitioning Authority verifies that the work required is within the scope of the Contract;
iii. The DND Requisitioning Authority submits the SOW to the Contractor and requests a Task Proposal;
iv. The Contractor must, within fifteen (15) working days upon receipt of the proposed work, provide a proposal and/or notify the DND Requisition Authority of the status of the proposal for the proposed work. Should the fifteen (15) working days period not be sufficient the Contractor must submit the proposal within a time period that is mutually acceptable to DND Requisition Authority and the Contractor.
v. The Contractor reviews, or prepares and submits in writing a proposed SOW, as may be required, which defines the scope of the work, starting and completion dates, phased deliveries of work packages and deliverables and the level of effort (LOE) to complete the work, including details of the labour categories to the DND Requisitioning Authority, using the financial tools available in the Contract. The Contractor will not be paid for providing the quotation or for providing other information required to prepare and issue the WA;
vi. The DND Requisitioning Authority reviews the LOE quote, negotiate with the Contractor and insert in the WA form the appropriate "Price and terms of payment" as per contract articles 6.1.1.
vii. The DND Requisitioning Authority reviews the LOE quote with the Technical Authority and seeks approval to proceed;
viii. If the LOE quote is within the DND work approval ceiling, the DND Requisitioning Authority signs the WA form and forward copies to the Contractor and the PWGSC Contracting officer;

ix. If the quote exceeds DND Requisitioning Authority's work approval ceiling, the WA form will be passed to the PWGSC Contracting officer for review and approval/signature prior to DND releasing it to the Contractor;
x. Amendments to the WA form require completion of a WA amendment form. The DND Requisitioning Authority approves WA where the amended value is within the threshold established in the Contract article 1.2.2. Any amendment that exceeds the threshold must be passed to the PWGSC Contracting officer for review and approval/signature before the DND Requisitioning Authority releases it to the Contractor; and
xi. The Contractor must not begin work before receiving the approved WA form.

2.2.5 Task Authorization - Department of National Defence

The administration of the Task Authorization process will be carried out by the Requisitioning Authority. This process includes monitoring, controlling and reporting on expenditures of the contract with Task Authorizations to the Contracting Authority.

3. Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual (http://buyandsell.gc.ca/policy-and-guidelines/standards-acquisition-clauses-and-conditions-manual) issued by Public Works and Government Services Canada.

3.1 General Conditions

SACC Manual clause 2010C	(2013-06-27), General Conditions - Medium Complexity - Services, apply to and form part of the Contract

4. Term of Contract

The period of the Contract is from the date of the Contract plus seven (7) years. The Contract Starting Date is _____. (NOTE: Canada to insert the Contract Starting Date.) The Contract Starting Date is the same as the date of the SUAS-A contract.

4.1 Option to Extend the Contract

The Contractor grants to Canada the irrevocable option to extend the term of the Contract up to five (5) additional 1 year periods under the same conditions. The Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions as set out in the Basis of Payment.

Canada may exercise this option at any time by sending a written notice to the Contractor at least 15 calendar days before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced for administrative purposes only, through a contract amendment.

5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Mr. Brent Sprigings
Supply Team Leader
Public Works and Government Services Canada
Acquisitions Branch
Communication Division
8C2 Place du Portage, Phase III
11 Laurier Street
Gatineau, Quebec
K1A OS5

Telephone: (819) 956-7889
Facsimile: (819) 956-0636
E-mail address: brent.sprigings@pwgsc.gc.ca

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

5.2 Requisitioning Authority or Procurement Authority

The Requisitioning Authority, also called Procurement Authority, for the Contract is:

Name	Mr. Stephan Ayotte, DLP 5-4-1
Address	Directorate of Land Procurement 5 National Defence Headquarters MGen George R. Pearkes Building 101 Colonel By Drive Ottawa, ON, K1A 0K2
Telephone:	(819) 994-4213
Facsimile:	(819) 994-6610
E-mail address:	Stephan.Ayotte@forces.gc.ca

The Requisitioning Authority (RA) is responsible for the financial and administrative control of the DND project management for the contract. The terms PA and RA are interchangeable.

5.3 Project Manager and Technical Authority

The Deputy Project Manager and Technical Authority for the Contract is:

Directorate Land Command Systems Program Management 4-7
National Defence Headquarters
MGen George R. Pearkes Building
101 Colonel By Drive,
Ottawa, ON, KIA 0K2
Attention:

Telephone: (819) 994
Facsimile: (819) 994
E-mail address: @forces.gc.ca

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

5.4 Contractor's Representative

The Contractor has appointed Mr./Mrs _____ (Name, Phone & Fax numbers, Internet address) as the only point of contact(s) for all enquiries or issues raised by the Consignees or the Contracting Authority during the execution of the work.

6. Payment

6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing its obligations under the Contract, the Contractor will be paid a Firm Price in accordance with the Annex A - Basis of Payment for all Systems, Reparable spares, training, support services, VSM, and consumable items delivered in accordance with Table 10 of the Annex A – Basis of Payment, for a cost of $ _____. (NOTE: Canada to insert the amount at contract award).

For the firm price portion of the Work only, Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

For Task Authorizations the Contractor will be paid the labour rates in Annex A - Basis of Payment subject to annual economic adjustments.

6.1.1 Basis of Payment for Task Authorizations and SPOs

The Contractor may submit a "Firm Price", a "Ceiling Price" or a "Limitation of Expenditure" quote to the DND Requisitioning Authority. The Contractor shall be paid in accordance with the

Annex A Basis of payment of this Contract. For each of the above cases, the following clauses must be completed and added to the work authorization form.

6.1.1.1 For a "Firm Price" quote the following SACC Manual clauses apply:
C0207C 2013-04-25, Basis of Payment - Firm Price or Firm Lot Price; and
C6000C 2011-05-16, Limitation of Price.

6.1.1.2 For a "Ceiling Price" quote the following SACC Manual clauses apply:
C1200C 2013-04-25, Basis of Payment - Ceiling Price; and
C6000C 2011-05-16, Limitation of Price.

6.1.1.3 For a "Limitation of Expenditure" quote the following SACC Manual clauses apply:
C0206C 2013-04-25, Basis of Payment - Limitation of Expenditure; and
C6001C 2013-04-25, Limitation of Expenditure.

6.2 Method of Payment

6.2.1 Method of Payment - Progress Payments (H1003C) 2010-01-11

6.2.1.1 Canada will make progress payments in accordance with the payment provisions of the Contract, no more than once a month, for cost incurred in the performance of the Work, up to 90 percent of the amount claimed and approved by Canada, if:

(a) an accurate and complete claim for payment using form PWGSC-TPSGC 1111, Claim for Progress Payment, and any other document required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;

(b) the amount claimed is in accordance with the basis of payment;

(c) the total amount for all progress payments paid by Canada does not exceed 90 percent of the total amount to be paid under the task;

(d) all certificates appearing on form PWGSC-TPSGC 1111 have been signed by the respective authorized representatives.

6.2.1.2 The balance of the amount payable will be paid in accordance with the payment provisions of the Contract upon completion and delivery of all work required under the task if the Work has been accepted by Canada, the quarterly Operation Availability (OA) is higher than 90 percent (as define in para 2 above) and a final claim for the payment is submitted. In the event where the OA is below 90%, the holdback will not be release until the OA is resolved.

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

6.2.2 Method of Payment for Task Authorizations and SPOs

The Contractor may submit a "Firm Price", a "Ceiling Price" or a "Limitation of Expenditure" quote to the DND Requisitioning Authority. The Contractor shall be paid in accordance with the Annex A Basis of payment of this contract. For each of the above cases, the following clauses must be completed, when applicable, and added to Task Authorization 626.

6.2.2.1 For a "Firm Price" quote, some of the following SACC Manual clauses may apply:

H1000C 2008-05-12, Single Payment;
OR
H1001C 2008-05-12, Multiple payments;
OR
H3010C 2010-01-11, Milestone Payments; and
H4012C 2010-01-11, Schedule of Milestones;

6.2.2.2 For a "Ceiling Price" or a "Limitation of Expenditure" quote, some of the following SACC Manual clauses may apply:

H1000C 2008-05-12, Single Payment;
OR
H1003C 2010-01-11, Progress Payments;

6.3 Limitation of Expenditure

6.3.1 Canada's total liability to the Contractor under the Contract must not exceed $_____ (NOTE: Canada to insert the amount at contract award). Customs duties are excluded and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

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

(a) When it is 75 percent committed, or
(b) Four (4) months before the contract expiry date, or
(c) As soon as the Contractor considers that the contract funds provided are inadequate for the completion of the Work, whichever comes first.

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

6.4 SACC Manual Clauses:

C0305C (2008-05-12), Cost Submission;
C0307C (2008-05-12), Cost Submission (For R&O);
C0705C (2010-01-11), Discretionary Audit;
C0710C (2007-11-30), Time and Contract Price Verification;
C2000C (2007-11-30), Taxes - Foreign-based Contractor; AND
C2604C (2013-04-25), Customs Duties, Excise Taxes and GST/HST - Non-resident
C2605C (2008-05-12), Canadian Customs Duties and Sales Tax - Foreign-based Contractor;

6.5 Economic Price Adjustment

The prices applicable for a coming year will be calculated during the last month of the preceding year for which the Contract had firm prices and will be the firm prices from that preceding year adjusted on account of fluctuations in the Canadian economy over the most recent consecutive 12 months period for which economic indicators are available. The adjusted Price(s) for the coming year shall remain fixed for that period except for the condition at paragraph 6.6.6. In the Contract, a "year" is a period from Contract Starting Date Anniversary to next Contract Starting Date Anniversary minus 1 day. Economic price adjustments will be done as per the following.

6.5.1 Firm Hourly Rates (FHR):

The economic indicator that must be used to account for the actual fluctuations in the economy is the Canadian Consumer Price Index (CPI). For purposes of this article, the most recent Statistics Canada monthly Catalogue "62-001-X" CPI will be used. The relevant CPI shall be from the Statistical Tables, Table 1, namely "The Consumer Price Index, major components and special aggregates, Canada, not seasonally adjusted". The CPI for "All Items (2002=100)" shall be used under column "Percentage change (month z) 201y from (month z) 201x". The indexation is calculated as follows:

a) Percentage change = "the CPI Percentage change (month z) 201y from (month z) 201x" + 1%;
b) FHR(s) applicable for the coming 12-month period = The FHR(s) for the preceding 12-month period of the contract multiplied by '(1 + "Percentage change")';
c) FHR(s) applicable for the coming 12-month period will be rounded up to 2 decimals (Example: $2.571 or $2.579 will be rounded up to $2.58).

6.5.2. Firm Price:

The prices for a coming year shall not exceed the lesser of:

a) Price indexation:
The economic indicator that must be used to account for the actual fluctuations in the economy is the Canadian Consumer Price Index (CPI). For purposes of this article, the most recent Statistics Canada monthly Catalogue "62-001-X" CPI will be used. The relevant CPI shall be from the Statistical Tables, Table 1, namely "The Consumer Price

Index, major components and special aggregates, Canada, not seasonally adjusted". The CPI for "All Items (2002=100)" shall be used under column "Percentage change (month z) 201y from (month z) 201x". The indexation is calculated as follows:

i) Percentage change = "the CPI Percentage change (month z) 201y from (month z) 201x";

ii) Firm Price (s) (FP) applicable for the coming 12-month period = The FP(s) for the preceding 12-month period of the contract multiplied by '(1 + "Percentage change")'; or

iii) FP(s) applicable for the coming 12-month period will be rounded up to 2 decimals (Example: $2.571 or $2.579 will be rounded up to $2.58);

or

b) the Contractor current Commercial Published Price List (CPPL), less discount (s) for the year in question.

6.5.3 Adjustments

There will be no adjustments made to the prices contained in the Annex A Basis of Payment for the first year.

6.5.4 Economic price adjustments (either upwards or downwards) shall be limited of a maximum of 5% of the previous year's price(s). In the event the change in the chosen index is negative, the price(s) in effect will be adjusted downward accordingly. Economic price adjustments shall be calculated over a consecutive 12 months period.

6.5.5 If the CPI referred to in articles 6.6.1 and 6.6.2 is discontinued, or if the basis for reporting the index is changed from that in existence on or after the award date of the Contract, the Minister shall immediately thereafter establish replacement indices, or formulate adjustments, consistent with the intent of those set forth in these articles.

6.5.6 Should the Contractor publish or publicly announce a price decrease, it shall provide the benefit of the decrease to Canada.

6.6 Price negotiation

Under some circumstances, firm prices may not be readily available or items may be added in the Contract basis of payment on an on going basis for the purchase of some Goods and Services. A review of the Contractor proposed pricing will be required by Canada. Detailed supporting data may be requested to validate the prices and other charges proposed. Cost and profit negotiations with the Contractor will be in accordance with Canadian Government policy.

6.7 Definitions of "Actual Cost"

6.7.1 For Contractor Manufactured Parts, "actual cost" is the Direct Material, Material Handling, Direct Manufacturing Labour and Direct Manufacturing Labour Overhead, calculated in accordance with Contract Cost Principle 1031-2; Exclusive of G&A and Profit.

6.7.2 For Contractor Acquired Parts, "actual cost" is the laid down cost incurred by the supplier to acquire a specific product for resale to Canada. This includes the invoiced Cost (less trade discounts) plus Freight In, Customs and Duties; Exclusive of G&A, O/H(s), Handling and Profit.

7. Invoicing Instructions

The Contractor must submit invoices in accordance with the information required in Section 10 2010C (2013-06-27), General Conditions - Service (Medium Complexity). Claims cannot be submitted until all the work identified in the claim is completed.

7.1 The invoice must contain the following information:

a) date;
b) name and address of consignee;
c) item/reference number, deliverable and/or quantity or description of work;
d) contract/purchase order number and financial codes;
e) all separate charges detailed individually;
f) the amount invoiced;
g) the Client Reference Number (CRN);
h) the Contractor's Vendor Code or Procurement Business Number (PB); and
i) all invoices must have original signatures and be stamped as original.

7.2 Invoices must be distributed as follows:

a) The original and one (1) copy must be forwarded for certification and payment to the following address:

Directorate of Land Procurement 5
National Defence Headquarters
MGen George R. Pearkes Building
101 Colonel By Drive
Ottawa, ON K1A OK2
Attention: Stephan Ayotte

b) One (1) copy must be forwarded to the "Consignee" identified in this document; and

c) One (1) copy must be forwarded to the Contracting Authority identified under section entitled "Authorities" of the Contract.

7.3 Invoicing Instructions - Progress Payment Claim

The Contractor must submit a claim for payment using form PWGSC- TPSGC 1111, Claim for Progress Payment.

Each claim must show:

(a) all information required on form PWGSC- TPSGC 1111;
(b) all applicable information detailed under the section entitled "Invoice Submission" of the general conditions; and
(c) a list of all expenses, details of the items repaired including NSN, Description of Item, Labour hours, materiel costs, Other applicable Costs, DND 626 or Work order numbers, Stock holding code change notification, and document number.

Each claim must be supported by:

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

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

7.5 The Contractor must prepare and certify one (1) original and two (2) copies of the claim on form PWGSC-TPSGC 1111, and forward it to the Requisitioning Authority identified under the section entitled "Authorities" of the Contract for appropriate certification after inspection and acceptance of the Work takes place.

The Requisitioning Authority will then forward the original and two (2) copies of the claim to the Contracting Authority for certification and onward submission to the Payment Office for the remaining certification and payment action.

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

8. Certifications

8.1 Compliance

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

8.2 Federal Contractors Program for Employment Equity - Default by the Contractor

The Contractor understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Contractor and HRSDC-Labour, the AIEE must remain valid during the entire period of the Contract. If the AIEE becomes invalid, the name of the Contractor will be added to the "FCP Limited Eligibility to Bid" list. The imposition of such a sanction by HRSDC will constitute the Contractor in default as per the terms of the Contract.

9. Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

10. Priority of Documents

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

(a) the Articles of Agreement;
(b) Annex B Small Unmanned Aircraft Systems (SUAS) Performance Specifications;
(c) Annex D SUAS In Service Support Statement of Work;
(d) the signed Task Authorizations (including all of their annexes, if any);
(e) the Contractor's bid solicitation, annexes and appendixes dated _____(NOTE: Canada to insert date of bid at contract award).

11. Defence Contract

SACC Manual Clause A9006C (2012-07-16) Defence Contract

12. SACC Manual Clauses

4001	(2013-01-28) Hardware Purchase, Lease and Maintenance
4002	(2010-08-16) Software Development or Modification Services
4003	(2010-08-16) Licensed Software
4004	(2013-04-25) Maintenance and Support Services For Licensed Software
4006	(2010-08-16) Contractor to Own Intellectual Property Rights in Foreground Information
A7017C	(2008-05-12) Replacement of Specific Individuals Canadian Contractor
A9006C	(2008-05-12) Defence Contract
A9019C	(2011-05-16), Hazardous Waste Disposal
A9062C	(2011-05-16) Site Regulations
A9117C	(2007-11-30), T1204 - Direct Request by Customer Department
A9131C	(2011-05-16), Controlled Goods Program
B1204C	(2011-05-16) Shelf Life
B1501C	(2006-06-16), Electrical Equipment

B1505C (2006-06-16) Shipment of Hazardous Materials
B4055C (2008-05-12) Material Change Notice
B4057C (2008-05-12) Technical Publications - Manuals
B4060C (2011-05-16) Controlled Goods
B6802C (2007-11-30) Government Property
B7500C (2006-06-16) Excess Goods
B8044C (2007-05-25) Mobile Repair Parties
B9028C (2007-05-25) Access to Facilities and Equipment
B903lC (2011-05-16), Canada's Obligation - Portion of the Work - Task Authorizations
C2000C (2007-11-30) Taxes - Foreign Based Contractor
C2608C (2012-07-16), Canadian Customs Documentation
C2610C (2007-11-30), Customs Duties - DND - Importer
C2800C (2013-01-28) Priority Rating
C2801C (2011-05-16) Priority Rating - Canadian-based Contractors
C4001C (2010-01-11) Travel and Living Expenses – Canadian Contractor
C6000C (2011-05-16) Limitation of Price
D0035C 2010-01-11, Shipping Instructions (DND) - Foreign-based Contractors e before contract award)

OR

D0037C (2011-05-16) Shipping Instructions (DND) - Canadian-based Contractor (NOTE: Canada to complete before contract award)
D2000C (2007-11-30) Marking
D2001C (2007-11-30) Labelling
D2017C (2008-05-12) Bar Coding – Material Marking
D3010C (2012-07-16) Dangerous Goods/Hazardous Products
D3014C (2007-11-30) Transportation of Dangerous Goods/Hazardous Products
D3015C (2007-11-30) Dangerous Goods/Hazardous Products
D3018C (2007-11-30) Preparation for Delivery
D4001C (2008-12-12) Shipping Instruction, Delivery at Destination
D5328C (2007-11-30) Inspection and Acceptance
D5510C (2012-07-16), Quality Assurance Authority (DND) - Canadian-based Contractor
D5515C (2010-01-11) Quality Assurance (DND) - Foreign based and US
D5540C (2010-08-16), ISO 9001:2008 Quality Management Systems - Requirement (QAC Q)
D5604C (2008-12-12), Release Documents (DND) - Foreign-based Contractor

OR

D5605C (2010-01-11), Release Documents (DND) - United States-based Contractor
D5606C (2012-07-16), Release Documents (DND) - Canadian-based Contractor
D6009C (2013-04-25) Shipping Instructions – Delivery and Destination Schedules Unknown
D6010C (2007-11-30) Palletization
D9002C (2007-11-30) Incomplete Assemblies
G1005C (2008-05-12) Insurance
H4500C (2010-01-11), Lien - Section 427 of the Bank Act (Canadian-based suppliers)
K3030C (2010-01-11) License to Material Subject to Copyright