Public Works and Government Services Canada | Travaux publics et Services gouvernementaux Canada

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:

Airframes / Aero Engines R&O Division / Division de la réparation de la révision des cellules et des moteurs
11 Laurier St. / 11, rue Laurier
8C1, Place du Portage
Attentio John White
Gatineau
Québec
K1A 0S5

SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION

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

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

Comments - Commentaires

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

Issuing Office - Bureau de distribution

Airframes / Aero Engines R&O Division / Division de la réparation de la révision des cellules et des moteurs
11 Laurier St. / 11, rue Laurier
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Gatineau
Québec
K1A 0S5

Title - Sujet AMSE R&O Services	
Solicitation No. - N° de l'invitation W8485-19SJ01/A	**Amendment No. - N° modif.** 001
Client Reference No. - N° de référence du client W8485-19SJ01	**Date** 2018-10-12
GETS Reference No. - N° de référence de SEAG PW-$$BF-126-26897	
File No. - N° de dossier 126bf.W8485-19SJ01	**CCC No./N° CCC - FMS No./N° VME**
Solicitation Closes - L'invitation prend fin **at - à 02:00 PM** **on - le 2018-10-31**	**Time Zone** **Fuseau horaire** Eastern Daylight Saving Time EDT
F.O.B. - F.A.B. **Plant-Usine:** ☐ **Destination:** ☐ **Other-Autre:** ☐	
Address Enquiries to: - Adresser toutes questions à: White(bf div.), John	**Buyer Id - Id de l'acheteur** 126bf
Telephone No. - N° de téléphone (819) 420-1749 ( )	**FAX No. - N° de FAX** ( ) -
Destination - of Goods, Services, and Construction: **Destination - des biens, services et construction:**	

Instructions: See Herein

Instructions: Voir aux présentes

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

Canada

Respect ◆ Integrity ◆ Excellence ◆ Leadership

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Exigences relatives au maintien du matériel de soutien pour l'entretien des aéronefs (MSEA)

Contexte du programme, exigences relatives au maintien et orientation(s) proposée(s)

Les 28 et 29 août 2018

Ordre du jour

0900 – Renseignements généraux

0905 – Introduction

0915 – Aperçu de l'initiative de maintien (IM)/ARS

0920 – But

0930 – Contexte et exigences du MSEA

0950 – Introduction aux retombées industrielles et technologiques/proposition de valeur

1000 – Pause santé

1020 – Analyse de l'option initiale

1030 – Calendrier

1035 – Séance de questions et de réponses

1055 – Aperçu d'une séance individuelle

1100 – Mot de la fin et clôture de la réunion

1300 – Début des séances de consultation individuelle

Renseignements généraux — Sécurité

- Il s'agit d'un immeuble sécurisé. Vous devez donc présenter en tout temps le laissez-passer qui vous a été attribué.

- Les visiteurs doivent être escortés en tout temps lorsqu'ils se trouvent dans l'immeuble.

Renseignements généraux — Administration

- Repérez les sorties.
- Les toilettes sont dans le couloir.
- Il est interdit de fumer à l'intérieur des bâtiments du Gouvernement du Canada; les fumeurs doivent se rendre à l'extérieur, dans les endroits désignés à cet effet.
- La cafétéria se trouve au rez-de-chaussée (escorte requise).

Renseignements généraux : Règles d'engagement (1/2)

- Tous commentaires, demandes d'information, préoccupations ou recommandations doivent être soumis par écrit à l'autorité contractante de Services publics et Approvisionnement Canada (SPAC) : M. John White (John.H.White@tpsgc-pwgsc.gc.ca).

- Tous renseignements et exposés communiqués dans le cadre de cette journée de l'industrie sont NON CLASSIFIÉS.

Renseignements généraux : Règles d'engagement (2/2)

- Des copies papier des présentations sont fournies pour la séance de questions et de réponses (Q&R).
- Veuillez vous abstenir de poser des questions avant le début de la séance de Q&R.

Introduction : Membres du groupe (1/2)

Services publics et Approvisionnement Canada (SPAC)

- **John White** : autorité contractante, Division des transports et des hélicoptères
- **Hafsa Asad** : étudiant de SPAC, Division des transports et des hélicoptères

Ministère de la Défense nationale

- **Capt Rick Quickfall:** authorité technique, DGPEA (FT)6-3-4
- **Adjum Chris Rozee:** authorité technique adjoint, DGPEA (FT)6-3-4-2

Introduction : Membres du groupe (2/2)

Ministère de la Défense nationale (MDN), suite :

- **Martin Kellen:** Gestionnaire du cycle de vie du matériel (GCVM), (Avions-écoles et chasseurs)6-3-4-4
- **Luke Marshe:** Gestionnaire en approvisionnement, Direction de l'obtention aérospaciale (DOA) 2-2
- **Weihong (Daisy) Jin:** Agent d'approvisionnement (DAP) 2-2-4

Innovation, Sciences et Développement éonomique Canada

- **Jennifer Naddaf**: agente des retombées industrielles et technologiques (RIT)

Parties prenantes et observateurs

Ministère de la Défense nationale (MDN), suite :

- **Lcol Craig Fowler:** gestionnaire du système d'arme (GSA), Division — Gestion du programme d'équipement aérospatial, (DGPEA (Avions-écoles et chasseurs)5/6)
- **Maj Darren Moser:** officier supérieur de génie de l'équipement et ingénieur senior de projets, DGPEA (Avions-écoles et chasseurs)6-3
- **Randy Cook:** Centre d'expertise, air

Services publics et Approvisionnement Canada (SPAC)

- **Nick York:** gestionnaire, Division des transports et des hélicoptères
- **Randy Cumming:** chef d'équipe d'approvisionnement, Division des transports et des hélicoptères

Innovation, Sciences et Développement éonomique Canada

- **Rick Santos**: gestionnaire, RIT
- **Seana Biggs**: RIT officier

Introduction : Surveillante de l'équité Sarah-Anaïs Julien-Matte

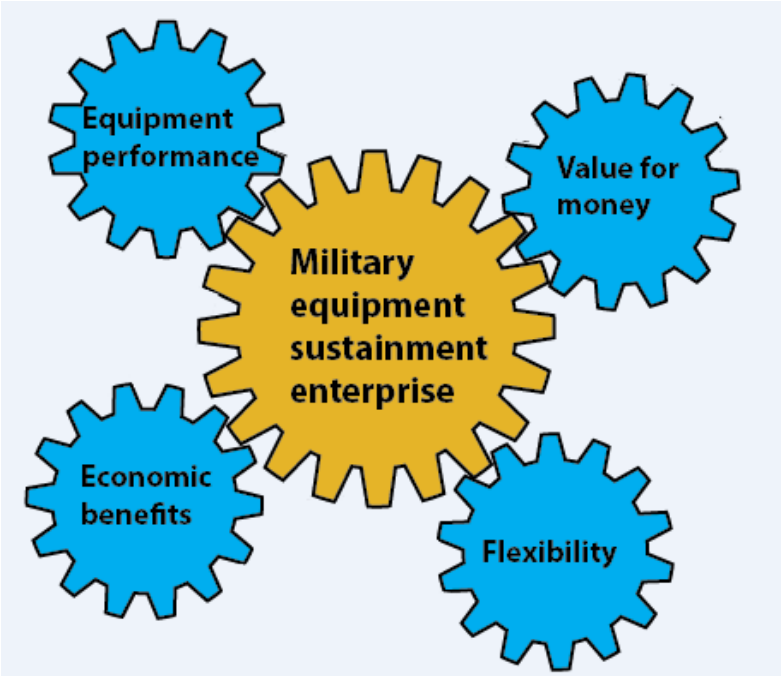
- Un entrepreneur tiers partie observera le processus de consultation ainsi que toutes invitations et tous processus d'évaluation ultérieurs, et formulera une opinion impartiale sur ces derniers.

- Participera aux rencontres individuelles, à l'examen des documents (y compris les lettres d'intérêt, les DP, etc.) et aux évaluations futures des DP.

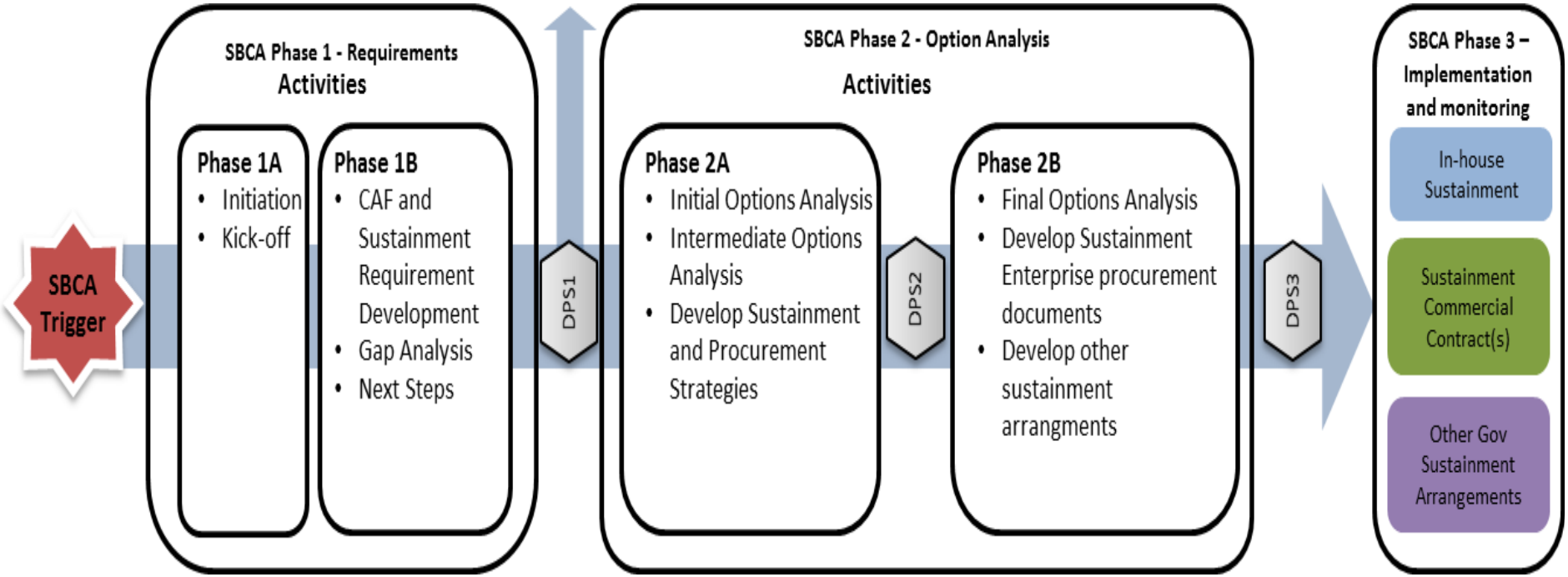
- Consultez le site à l'adresse http//www.tpsgc-pwgsc.gc.ca/se-fm/index.html pour obtenir de plus amples renseignements.

Qu’est-ce que l’Initiative de soutien (IS)?

- **Une approche interministérielle (SPAC, MDN, ISDEC)** visant à **concevoir** les meilleures stratégies pour la prestation des services de soutien de l’équipe de la défense.
- Réalisée grâce à l’optimisation du **rendement de l’équipement**, au **rapport qualité-prix**, aux **avantages économiques** et à la **souplesse**.
- Des directives sont fournies par les centres d’expertise (aériens, terrestres, navals).



Analyse de rentabilisation du soutien



But

Cet engagement de l'industrie a pour objectif de :

1. Présenter le contexte du programme de maintien du MSEA

2. Présenter les exigences relatives au maintien du MSEA

3. Présenter les résultats de l'analyse des options afin d'obtenir les commentaires positifs et négatifs de l'industrie

Contexte (1 de 2)

- Le matériel de soutien pour l'entretien des aéronefs (MSEA) est utilisé par l'Aviation royale canadienne (ARC) pour servir et soutenir les flottes d'aéronefs.

- Le MSEA comprend de nombreux systèmes hydrauliques, électriques et mécaniques, qui sont conservés et utilisés aux bases et aux escadres des Forces armées canadiennes d'un bout à l'autre du Canada, aux installations de l'entrepreneur et lors des déploiements et des opérations.

- Par le passé, le MSEA était obtenu sans conclusion de contrats de soutien en service au-delà de la portée de toute garantie applicable.

Contexte (2 de 2)

- Le Canada a développé et continue de développer les ressources et le personnel pour effectuer l'entretien des premier et deuxième niveaux pour l'unité afin de s'assurer qu'au moment où le MSEA est déployé, les FAC sont en mesure d'effectuer l'entretien du matériel.

- Le travail de troisième niveau (R&R) a été effectué par le biais de contrats conclus avec l'industrie.

- De nombreux éléments n'ont jamais fait l'objet de R&R.

Exigences (1/4)

- Établir la continuité de la réparation et la révision (R&R) pour le MSEA.

- Les éléments du MSEA qui ont été attribué à une flotte spécifique sont exclus de cet effort.

Exigences (2/4)

Liste du matériel réparable

Sparing WUC/SC Group	NSN	Description	TA	Group Manag	Type	SI	Acc Co	Rep Co	IM Co	Shelf Life (mor	Unit of Issu	Current Serv Stock (SS	Current SS at Dep
001244336	6685-00-124-4336	TIRE INFLATOR ASSEM	A54W	No	Common	54B	X	B	1R	0	KT	182	
003031088	4320-00-303-1088	PUMP,HYDRAULIC RAM,H	AB26	Yes	Unique No ERNs	54B	A	F	4N	0	EA	33	16
219064041	1730-21-906-4041	LADDER,AIRCRAFT BOA	AB26	Yes	Common	54B	A	F	4N	0	EA	137	18
218051524	1730-21-805-1524	MAINTENANCE PLATFOR	AB26	Yes	Common	54B	A	F	4N	0	EA	272	16
218934926	1730-21-893-4926	JACK,HYDRAULIC,TRIPO	AB26	Yes	Unique No ERNs	54B	A	F	4N	0	EA	95	12
009123998	1730-00-912-3998	JACK,HYDRAULIC,TRIPO	AB26	Yes	Unique No ERNs	54B	A	F	4N	0	EA	102	0
219211378	1650-21-921-1378	CYLINDER ASSEMBLY,A	AB26	Yes	Unique No ERNs	54B	A	B	4N	0	EA	6	5
	4440-01-273-2564	DEHUMIDIFIER,DESICCAN	AB28	No		54B	A	F	1R	0	EA	20	9
014086110	4930-01-408-6110	DISPENSING PUMP,HAND	AB05	Yes	Unique No ERNs	54B	A	F	4N	0	EA	45	4
218147801	1730-21-814-7801	JACK,HYDRAULIC,TRIPO	AB26	Yes	Common	54B	A	F	4J	0	EA	12	8
005091388	1730-00-509-1388	JACK,HYDRAULIC,TRIPO	AB26	Yes	Unique No ERNs	54B	A	F	4N	0	EA	158	43
218934488	1730-21-893-4488	JACK,AIRCRAFT LANDIN	AB26	Yes	Common	54B	A	F	4N	0	EA	42	2
011266239	1730-01-126-6239	TRAILER,LIFT,GROUND H	AB26	Yes	Unique No ERNs	54B	A	F	4N	0	EA	26	0
014086115	4930-01-408-6115	DISPENSING PUMP,HAND	AB05	Yes	Unique No ERNs	54B	A	F	4N	0	EA	66	2
219015921	1730-21-901-5921	LADDER ASSEMBLY,MA	AB26	Yes	Unique No ERNs	54B	A	F	4N	0	EA	8	5
002034697	1730-00-203-4697	JACK,AIRCRAFT LANDIN	AB26	Yes	Common	54B	A	F	4J	0	EA	22	0
218953572	1730-21-895-3572	MULTI-PURPOSE DOLLY	AB26	Yes	Unique No ERNs	54B	A	F	4J	0	EA	44	0
014716704	1730-01-471-6704	SLING,AIRCRAFT MAINTE	AB26	Yes	Common	54B	X	F	4N	0	EA	9	
003917932	1730-00-391-7932	JACK,HYDRAULIC,TRIPO	AB26	Yes	Common	54B	A	F	4J	0	EA	22	4
005162017	1730-00-516-2017	JACK,HYDRAULIC,TRIPO	AB26	Yes	Common	54B	A	F	4N	0	EA	40	1
218051532	1730-21-805-1532	JACK,HYDRAULIC,TRIPO	AB26	Yes	Common	54B	A	F	4N	0	EA	43	0
218457290	1730-21-845-7290	JACK,HYDRAULIC,TRIPO	AB26	Yes	Common	54B	A	F	4N	0	EA	9	1
000138813	1730-00-013-8813	JACK,AIRCRAFT LANDIN	AB26	Yes	Unique No ERNs	54B	A	F	4N	0	EA	14	0
013530762	1730-01-353-0762	TOWBAR,AIRCRAFT	AB26	Yes	Unique No ERNs	54B	A	F	4N	0	EA	47	0
005545439	1730-00-554-5439	TOWBAR,AIRCRAFT	AB26	Yes	Common	54B	A	F	4N	0	EA	19	9
011266143	1730-01-126-6143	ADAPTER,ENGINE INST	AB26	Yes	Unique No ERNs	54B	A	F	4N	0	EA	26	0
218914553	1730-21-891-4553	VALVE,BLOCK ASSEMB	AB26	Yes	Unique No ERNs	54B	A	B	4A	120	EA	3	3
015110085	1730-01-511-0085	SLING,AIRCRAFT MAINTE	AB26	Yes	Common	54B	A	F	4N	0	EA	13	0
218012204	4320-21-801-2204	PUMP,HYDRAULIC RAM,H	AB26	Yes	Unique No ERNs	54B	A	F	4N	0	EA	6	5
218102154	1740-21-810-2154	TRAILER,GROUND HAND	AB26	Yes	Common	54B	A	F	4N	0	EA	32	2
002943031	1730-00-294-3031	TOWBAR,AIRCRAFT	AB26	Yes	Common	54B	A	F	4N	0	EA	46	13

- Il y a actuellement environ 330 éléments uniques du MSAE qui nécessitent un entretien.
- Cela est compris dans la trousse d'information.

Exigences (3/4)

La portée éventuelle des activités contractuelles requises pour maintenir le MSEA inclus :

•Soutien à l'entretien;

•Soutien technique, y compris la gestion de la configuration;

•Soutien du matériel.

Exigences (4/4)

La portée éventuelle des activités contractuelles requises pour maintenir le MSEA inclus (suite) :

•Soutien à la formation/aux compétences techniques;

•Gestion de l'obsolescence;

•Soutien des données techniques;

•Soutien de la gestion et de la technologie de l'information.

Introduction aux RIT/proposition de valeur

Retombées industrielles et technologiques / Proposition de valeur

Jennifer Naddaf, ISDEC

Pause-santé

Analyse des options (AO) :

Les options n’ont pas été mises au point; elles sont présentées ici afin de recueillir des commentaires positifs et négatifs auprès de l’industrie.

Le Canada se réserve le droit de modifier toute option en se fondant sur une analyse approfondie ou de nouvelles informations.

Cette lettre d’intention restera ouverte jusqu’au 31 octobre 2018. Les commentaires soumis avant cette date seront considérés.

Analyse des options : Division de la portée

WBS Levels						CANADA			Third Line R+O Contractor
Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	First Line	Second Line	NCR/ 1 CAD	
4.0 - Enterprise Materiel (Defence Supply Chain (DSC) - formerly known as CFSS)									
	4.1 - FAA Compliance Documentation								
		4.1.1 - Spending Authorization Form (SAF)							
			4.1.1.1 - DAP obtains SAF from RC Manager						
			4.1.1.2 - DAP keeps SAF on file						
		4.1.2 - Procurement Initiation Request Form (PIRF)							
			4.1.2.1 - DAP obtains PIRF from responsible Resource Manager						
			4.1.2.2 - DAP specifies materiel and quantities to be purchased						
			4.1.2.3 - DAP keeps PIRF on file						
		4.1.4 - Financial Blanket Approval Form (FBAF)							
			4.1.4.1 - DAP obtains FBAF from RC Manager						
			4.1.4.2 - DAP keeps FBAF on file						
	4.2 - Planning								
		4.2.1 - Forecasting - Current Activities							
		4.2.2 - Forecasting - Future Activities							
			4.2.2.1 - Identify removal for scheduled maintenance (service intervals)						
			4.2.2.2 - Forecast unscheduled removals						
			4.2.2.3 - Identify Bill of Materiel to support scheduled removals and unscheduled removals						
			4.2.2.4 - Calculate annual materiel requirements to support sum of BOMs						
			4.2.2.5 - Calculate adequate sparing levels						
			4.2.2.5 - Verify holdings of materiel						
			4.2.2.6 - Procure required inventory based on sparing level						
		4.2.3 - Financial Review, Support and Oversight							

- Cela est compris dans la trousse d'information.

Analyse des options : Résultats

WBS Levels						CANADA			Third Line R+O Contractor	Outcomes
Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	First Line	Second Line	NCR/ 1 CAD		
	4.2 - Planning									
		4.2.1 - Forecasting - Current Activities								
		4.2.2 - Forecasting - Future Activities								
			4.2.2.1 - Identify removal for scheduled maintenance (service intervals)							
			4.2.2.2 - Forecast unscheduled removals							
			4.2.2.3 - Identify Bill of Materiel to support scheduled removals and unscheduled removals							Contractor to provide BOM to WSM
			4.2.2.4 - Calculate annual materiel requirements to support sum of BOMs							
			4.2.2.5 - Calculate adequate sparing levels							
			4.2.2.5 - Verify holdings of materiel							
			4.2.2.6 - Procure required inventory based on sparing level							
		4.2.3 - Financial Review, Support and Oversight								
	4.3 - Procurement Approach - Inventory Types									
		4.3.1 - Parts w/ NSN - CIS (Contract-Issued Spares) Included								
			4.3.1.1 - Review priority demands which cannot be satisfied from existing stock							
			4.3.1.2 - Receive Recommended Order Buys (ROB) reports and establish reorder priorities							

- Cela est compris dans la trousse d'information.

Analyse des options : Approche relative à la demande de soumissions

– Attribuer un ou des marchés à fournisseur unique selon les droits de PI; organiser un des concours publics pour tout l'équipement sans tenir compte de la PI.

– Organiser un ou des concours ouverts pour attribuer un ou des contrats.

Analyse des options : Regroupement des services contractuels (1/2)

– Élaborer un contrat comprenant toute l'équipe du MSEA.

– Élaborer plusieurs contrats divisés/attribués sur la base de la propriété intellectuelle ou des dispositions relatives à l'octroi de licences.

Analyse des options : Regroupement des services contractuels (2/2)

–Élaborer plusieurs contrats répartis selon la nature de l'équipement (p. ex. hydraulique, mécanique, électrique).

Analyse des options : Nature du contrat

– Contrat(s) axé(s) sur le rendement / les mesures incitatives

– Contrat(s) transactionnel(s) :

Calendrier ARS MSEA

Étapes clés de l'approvisionnement	Date cible / Échéancier
Rédaction/Affichage de la lettre d'intérêt (LI)	Juillet 2018
Engagement de l'industrie/Séances de consultation individuelle	Du 28 au 29 août 2018
Mise au point de la Stratégie de maintien	Octobre 2018
Stratégie d'approvisionnement	Février 2019
DP affichée, réponses évaluées et recommandation relative à l'attribution	De septembre à octobre 2019
Attribution du contrat	De novembre à décembre 2019

Une séance de questions et de réponses

Aperçu d'une séance individuelle

- Pour les séances individuelles, les participants inscrits doivent arriver environ cinq minutes à l'avance et patienter dans la zone près de la sécurité.

- Veuillez consulter votre Entente sur les règles d'engagement pour assurer un processus de consultation juste.

- Les participants se doivent d'indiquer l'information exclusive au moment de la divulgation.

Mot de la fin

- Merci à tous ceux qui ont participé à l'événement.
- Les prochaines étapes pour l'engagement continu de l'industrie seront publiées sur le site BuyandSell.gc.ca.
- Pour obtenir de plus amples renseignements, veuillez communiquer avec l'autorité contractante de SPAC, John White, par courriel à l'adresse John.H.White@tpsgc-pwgsc.gc.ca.

Matériel de soutien pour l'entretien des aéronefs (MSEA)

Consultation de l'industrie – *Août 2018*

Innovation, Science and Economic Development Canada
Innovation, Sciences et Développement économique Canada

Canada

Aperçu

- L'objectif de cette consultation
- Politique des retombées industrielles et technologiques incluant la proposition de valeur
- Transactions et valeur du contenu canadien (VCC)
- Comment la politique des RIT bénéficie le Canada
- Analyse du marché
- L'objectif stratégique de la proposition de valeur
- Prochaines étapes

Industry Engagement – Objective

- Le gouvernement du Canada consulte des représentants de l'industrie afin d'appuyer l'élaboration du cadre d'évaluation de la proposition de valeur (PV) pour le projet MSEA:
  - Présenter les faits saillants de l'analyse de marché interne;
  - Obtenir des commentaires de l'industrie. Les questions relatives à la demande de renseignements ont été publiées le 5 juillet 2018.
  - Les commentaires reçus de l'industrie pendant le processus de consultation ainsi que les résultats de recherche et d'analyse seront pris en considération lors de l'établissement de l'objectif stratégique de la proposition de valeur.

Politique des retombées industrielles et technologique

Les entreprises qui se voient attribuer un contrat d'approvisionnement en matière de défense sont tenues de mener des activités commerciales au Canada, dont la valeur équivaut à celle du contrat.

Aspects généraux de la politique

- Des **travaux d'une valeur minimale entrepris au Canada** qui sont directement liés à un approvisionnement.
- Des plans pour répartir les **travaux entre des entreprises canadiennes** dans toutes les régions du pays.
- Des investissements dans les **petites et moyennes entreprises** partout au Canada.
- **Favoriser les travaux dans les domaines d'importance stratégique** définis à la suite d'analyses et de consultations de l'industrie.

Quand s'appliquent-ils?

- Tous les marchés de la défense et de la Garde côtière canadienne admissibles **de plus de 100 M$** et pour lesquels l'exception relative à la sécurité nationale s'applique
- Tous les approvisionnements en matière de défense admissibles dont la valeur contractuelle se situe entre **20 et 100 millions de dollars** feront l'objet d'un examen aux fins d'application de la politique des RIT.

La proposition de valeur (PV)

QU'EST-CE QU'UNE PV?

La **proposition économique** d'un soumissionnaire **au Canada**.

Établie à la suite d'**analyses de marché**, d'une **mobilisation de l'industrie** et de la **consultation de tiers**.

L'**élément coté et pondéré** de la sélection de l'entrepreneur, ainsi que les éléments techniques et de coût.

OBJECTIFS DE LA PV

1. Soutenir la **viabilité à long terme** et la **croissance** du secteur de **la défense due Canada**.
2. Soutenir la **croissance des principaux entrepreneurs et fournisseurs au Canada**, y compris les PME dans toutes les régions du pays.
3. **Stimuler l'innovation** au Canada au moyen de la R-D.
4. **Accroître le potentiel d'exportation** des entreprises établies au Canada.
5. Encourager le **développement des compétences et formation** au Canada

Améliorations récentes de la politique ITB

Capacités industrielles clés (CIC)

Les CIC représentent une approche stratégique pour tirer parti des retombées économiques au moyen des prochains marchés d'approvisionnement de la Défense nationale et de la Garde côtière canadienne, en insistant de façon continue sur l'innovation, la croissance des fournisseurs, les exportations et la croissance économique pour l'industrie de la défense, et les applications commerciales connexes.

Développement des compétences et formation

Marché par marché, les soumissionnaires seront encouragés à identifier les possibilités de développement des compétences et de formation pour les Canadiens. Ce pilier peut aussi prendre en considération les groupes sous-représentés (p. ex., les femmes, les Canadiens autochtones) dans l'industrie de la défense et d'autres secteurs économiques

Plans concernant le genre et la diversité

En plus d'autres documents de planification de RIT, on demandera désormais aux soumissionnaires de fournir des plans concernant le genre et la diversité, au niveau de l'entrepreneur principal, décrivant leur approche pour atteindre l'équilibre entre les sexes et accroître la diversité au sein de leur structure organisationnelle canadienne et leurs chaînes d'approvisionnement élargies au Canada.

CAPACITÉS INDUSTRIELLES CLÉS

TECHNOLOGIES ÉMERGENTES

- Matériaux de pointe
- Cyberrésilience
- Systèmes télépilotés et technologies autonomes
- Intelligence artificielle
- Systèmes spatiaux

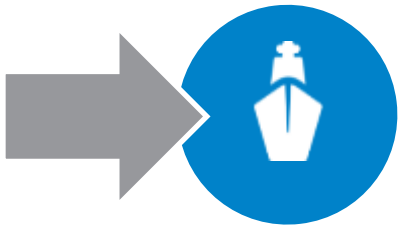
PRINCIPALES COMPÉTENCES ET SERVICES INDUSTRIELS ESSENTIELS

- Composantes et systèmes aérospatiaux
- Intégration de systèmes de défense
- Solutions en matière de véhicules terrestres
- Systèmes de mission et systèmes de plateforme navals
- Services de construction navale, de conception et l'ingénierie
- Formation et simulation
- Blindage
- Systèmes électro-optiques et infrarouges
- Soutien en service
- Munitions
- Sonars et systèmes acoustiques

Transactions: DIRECTE & INDIRECTE

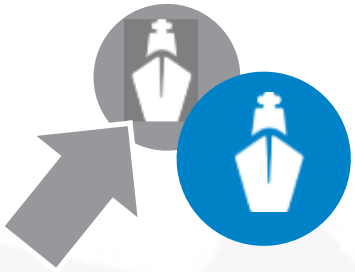
Les transactions sont des activités commerciales entreprises pour remplir une obligation de RIT, **conçues pour être flexibles** dans le cadre de la PV; Mesuré en **valeur du contenu canadien (VCC)**

DIRECTE



Une activité commerciale directement liée à l'équipement ou aux services fournis, par exemple:
- Composants et systèmes de plate-forme
- Activités de maintien en puissance

INDIRECTE



Investissements stratégiques ou activités commerciales dans d'autres domaines, par exemple: -- Recherche et développement
- Amélioration des capacités et des compétences
- Travail dans le secteur commercial, etc.

Critères d'admissibilité des transactions

Critères d'admissibilité
Causalité • Les activités et les travaux représentés par des transactions de RIT doivent avoir été effectués, en partie, en raison de l'obligation en matière de RIT.
Apport différentiel • Si la transaction proposée ne représente pas un nouveau travail, les entrepreneurs peuvent réclamer les fruits de la croissance excédentaire sur la base d'une période de 3 ans de travail entrepris en raison de l'obligation en matière de RIT.
Calendrier • Toutes les activités commerciales présentées comme des transactions de RIT doivent avoir lieu pendant la période de réalisation des RIT prescrite pour le contrat.
Donateur admissible • Toutes les transactions doivent mettre à contribution des donateurs admissibles conformes à la définition figurant dans le contrat.
Valeur du contenu canadien (VCC) minimale • Les transactions indirectes doivent avoir une VCC d'au moins 30 %.
Niveau de technologie minimal • Les transactions indirectes doivent avoir un niveau de technologie égal ou supérieur à celui du projet.

Valeur du contenu canadien

Le VCC est **mesuré en dollars canadiens** et représente la partie du produit ou du service (transaction) qui comprend les **coûts canadiens**.

INCLUS

- Composantes d'origine canadienne
- Salaires payés aux Canadiens ou aux résidents permanents
- Profits taxables au Canada
- Services publics, entretien et loyer payés au Canada

EXCLUS

- Pièces importées au Canada
- Salaires, redevances et droits de licence versés à des non-Canadiens
- Coût de préparation des offres
- Taxes, droits et frais de lobbyiste

EXEMPLE

Transaction:	Véhicule tactique de patrouille
VCC:	67%
Valeure de la Transaction:	$3,700,000
Valeur créditée (VCC):	$2,479,000

QU'AVONS-NOUS RÉALISÉ?

Capacité de tirer parti d'investissements de grande valeur

- Facteur pondéré et coté dans la sélection
- Critères adaptés à chaque projet
- Caractéristiques et processus simplifiés de la Politique

Objectifs clairs

- Croissance du secteur de la défense
- Développement des fournisseurs, y compris les PME
- Recherche et développement technologique
- Exportations du Canada

Les résultats comprennent la croissance du secteur de la défense et des retombées importantes pour l'ensemble de l'économie.

Coup d'œil sur le PORTEFEUILLE DES RIT 1986 – 2017	144 marchés	43,8 G$ en obligations	31,8 M$ d'activités réalisées	8,8 G$ d'activités en cours	3,2 G$ Possibilités de travaux à venir

LA PROPOSITION DE VALEUR FONCTIONNE

- **L'obligation de rendre compte et la transparence** favorisent une participation efficace des entreprises canadiennes et une réalisation rapide des engagements de l'entrepreneur.
- **Partenariats plus précoces dans les chaînes d'approvisionnement** : Les entreprises du secteur de la défense tirent profit de la caractéristique de mise en banque en faisant des investissements précoces dans les marchés d'approvisionnement en matière de défense.
- **Soutien des flottes militaires du Canada** – 1,3 G$ en 2015 (plus de la moitié des activités liées aux RIT).
- **Expansion des PME avec** des engagements de 15 % de la valeur du marché (par rapport à 12 % de 2011 à 2015).
- **Engagements de 1,9 G$ en ventes à l'exportation**, ce qui augmente les occasions de participer aux chaînes d'approvisionnement mondiales pour les entreprises canadiennes.
- Le Canada attire des **engagements précoces à l'égard de partenariats d'investissement dans la R-D** avec les établissements d'enseignement postsecondaire et les PME.

PORTEFEUILLE DES RIT *depuis* 2014

15 Nouveaux contrats

9 Contrats concurrentiels

6 Contrats non concurrentiels

RIT ont été inclus dans plusieurs extensions de contrats

Études et analyse du marchés

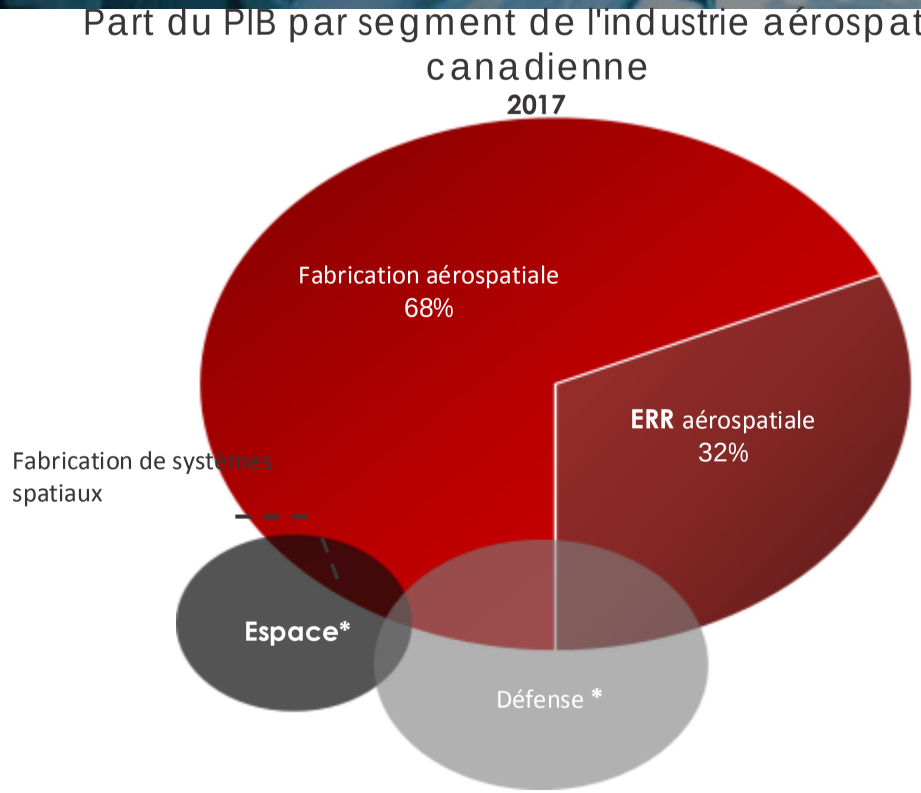
On effectue des études et des analyses de marché pour mieux comprendre les capacités de l'industrie canadienne et le marché mondial.

Les conclusions fournissent de l'information sur la mise à profit d'occasions et éclairent l'établissement du cadre de la proposition de valeur.

Principales sources d'information

- Recherches et analyses internes
- Analyses des capacités de l'industrie effectuées par les organismes de développement régional (ODR) et d'autres ministères
- Consultations de tiers et analyses des tendances du marché
- Discussions avec les représentants de l'industrie

L'écosystème de l'industrie aérospatiale canadienne est lié aux industries de la défense et de l'espace



- Les activités de ERR militaire représentaient le quart des activités de ERR aérospatiale au Canada
- Parmi l'ensemble des activités de défense *, l'aéronautique a capturé plus de 30% des ventes et près de 50% de la recherche et développement (R & D) **

*Basé sur les dernières informations disponibles (2016)
** ISDE a ajusté les estimations basée sur les données des entreprises qui ont répondu entièrement aux questions de R-D et qui ont spécifiés leurs activités en R-D.
Source: Les estimations du modèle économique d'ISED basées sur les dernières données révisées de Statistique Canada, de l'Agence du revenu du Canada et des observations au niveau de l'entreprise 2018; Enquête sur les industries canadiennes de la défense, de l'aérospatiale et de la marine de Statistique Canada (2016), 2018.

Les activités aérospatiales de la défense sont présentes à travers le Canada

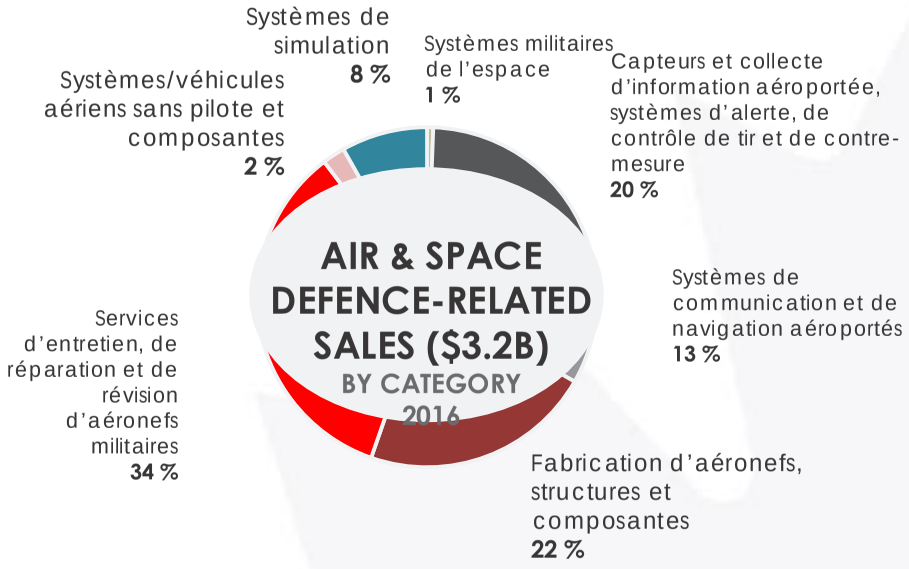
Par des emplois en aérospatiale par region
2017

- La plupart des activités de fabrication aérospatiale ont lieu dans le centre du Canada
- Les aéronefs militaires MRO constituent la deuxième activité d'importance dans le secteur de la défense dans l'Ouest et le Canada Atlantique
- Les activités de défense aérospatiale sont présentes a travers le Canada

Source: Les estimations du modèle économique d'ISED basées sur les dernières données révisées par Statistique Canada, l'Agence du revenu du Canada et les observations au niveau de l'entreprise. 2018; Enquête sur les industries canadiennes de la défense, de l'aérospatiale et de la marine de Statistique Canada (2016), 2018.

Capacités en soutien de l'aérospatiale canadienne

- **Les services ERR d'aéronefs militaires (ERRAM)*** représentent **34 %** des ventes en défense spatiale et aérospatiale
- **Près de 70 entreprises** sont actives dans le domaine de l'ERRAM
  - Les **4 principales entreprises** en terme de ventes représentent **76 %** des ventes en ERRAM
- **Les systèmes de mission aéroportés** représentent **33%** des ventes en défense spatiale et aérospatiale
- **Exportations importantes - plus de 40%** des activités de soutien reliées à la défense sont exportées



* Suivant la définition de Statistique Canada, les services d'entretien, de réparation et de révision d'aéronefs militaires comprennent les ventes reliées aux activités de d'entretien, de réparation et de révision sous contrat d'aéronefs militaires de moteurs et d'accessoires ainsi que des activités reliées de formation

Source : Enquête sur les industries canadiennes de la défense, de l'aérospatiale et de la marine de Statistique Canada (2016), 2018.

Conclusions principales

- **L'industrie de la défense aérospatiale** représentaient **plus de 30 %** du total **des ventes, de l'emploi et des exportations** de l'industrie canadienne de la défense en 2016

- **L'industrie de la défense aérospatiale** représentaient **près de la moitié** du total des investissement **en R-D** de l'industrie canadienne de la défense en 2016

- Comptant **près de 70 entreprises**, les services **ERR d'aéronefs militaires** représentent **34 %** des ventes en défense spatiale et aérospatiale

- Les activités de l'industrie aérospatiale de la défense sont présentes **à travers le Canada**

L'objectif stratégique de la proposition de valeurs - Preliminaries

Maintenir et accroître les capacités canadiennes actuelles en ERR, une capacité industrielle clé dans la catégorie soutien en service et influencer des possibilités dans l'avancement technologique en matière de ERR.

CONSEILS ET RESSOURCES CLÉS

1

Comprendre la politique des RIT et la proposition de valeur

Le site Web d'Innovation, Sciences et Développement économique Canada contient de plus amples renseignements sur la politique des RIT.

→ ***www.canada.ca/rit***

2

Prendre contact avec les organismes de développement régional (ODR)

Les ODR connaissent bien leurs régions respectives et peuvent faciliter l'établissement de liens entre l'industrie canadienne et les fournisseurs.

→Information sur les ODR

3

Prendre contact avec des fournisseurs potentiels et des établissements d'enseignement postsecondaire et de recherche

Recueillir d'autres renseignements et établir des liens grâce à des associations professionnelles, des journées de l'industrie, des conférences et des salons professionnels organisés par l'AICDS et l'AIAC.

→ https://www.defenceandsecurity.ca/

→ http://aiac.ca/fr/

COORDONNÉES

Pour obtenir de plus amples renseignements sur les retombées économiques, envoyez un courriel à l'adresse : Jennifer.Naddaf2@canada.ca

Personnes-ressources des organismes de développement régional:

Agence de promotion économique du Canada atlantique(APECA)
Elyse Mistry – elyse.mistry@canada.ca

Agence fédérale de développement économique pour le Sud de l'Ontario (FedDev Ontario)
Craig McClelland – craig.mcclelland@canada.ca

Initiative fédérale de développement économique pour le Nord de l' Ontario (FedNor)
Natalie Brabant - natalie.brabant@canada.ca

Diversification de l'économie de l'Ouest Canada (DEO)
Peter Hoek- peter.hoek@canada.ca

Développement économique Canada pour les régions du Québec (DEC)
Mathieu Trudelle - mathieu.trudelle2@canada.ca

PROCHAINES ÉTAPES

- ISDE examinera les commentaires formulés par l'industrie sur la mise à profit d'occasions et consultera aussi l'industrie lors de l'établissement du cadre de la proposition de valeur.

- ISDE accueillera les questions et les commentaires pendant toute la durée du processus de consultation.

- Toutes les questions relatives à cette demande de renseignements doivent être envoyées par l'entremise de l'autorité contractante.

Canada

WBS Levels						CANADA			Third Line R+O Contractor	Outcomes
Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	First Line	Second Line	NCR/ 1 CAD		
1.0 - Enterprise Program Management										
	1.1 - Program Governance									
		1.1.1 - Strategic Intent								
			1.1.1.1 - Develop framework and strategy for ongoing Contract Management							
			1.1.1.2 - Develop strategy for Contract Close-Out Plan and activities							
			1.1.1.3 - Develop framework and strategy for contract renewal/initiation							
			1.1.1.4 - Provide strategic advice and planning							
			1.1.1.4 - Develop framework and strategy for Business Continuity Plan (Disaster Recovery Plan);							
		1.1.2 - Strategic Reporting Requirements (Materiel-Based (CHI), FAA Requirements, Contractural Requirements, Environmental, AW, etc.)								
			1.1.2.1 - Formulate communications strategy							
			1.1.2.2 - Develop framework and strategy for governance (appproval/review/development) venues (e.g., executive-type, management/working-level-type, technical/SME-type, etc.)							
			1.1.2.3 - Develop framework and strategy for meetings (programmatic/contractual, technical, financial, etc.)							
			1.1.2.4 - Develop framework and strategy for reporting deliverables (e.g., agenda, minutes, records of discussion, reports, etc.)							
		1.1.3 - Resource Requirements								
		1.1.4- Intra-Governmental/Departmental Review								
		1.1.5- Planned Operational Requirements								
		1.1.6 - Planned Support Requirements								
		1.1.7 - Technical Airworthiness Management								
	1.2 - Program Planning									
		1.2.1 - Life Cycle Plan (LCP)								
		1.2.2 - Materiel Forecasting								
		1.2.3 - Ad Hoc Project Planning								
		1.2.4 - Procurement Initiation Activities (As Required)								
		1.2.5 - AMSE Business Plan								
		1.2.6 - Contract Deliverables Management								
	1.3 - Program Execution									
		1.3.1 - Distribution/Communication of Plans to Stakeholders								
		1.3.2 - Schedule Management								
		1.3.3 - Risk Management								
		1.3.4 - Activity Optimization / Prioritization Activities (Logistical and Technical Problem Resolution)								
		1.3.5 - In-Year Contract Management								
		1.3.6 - Contract Close-Out (As Required)								
		1.3.7 - Contract Deliverables Development/Implementation/Steady-State								
	1.4 - Program Monitoring									
		1.4.1 - Performance Management								
			1.4.1.1 - Review targets annually to verify relevance							
			1.4.1.2 - Analyse actual performance against targets with the aim of driving action							
			1.4.1.3 - Collect/record, validate, and analyze enterprise performance data							
			1.4.1.4 - Report contract performance							
			1.4.1.5 - Review, analyze and validate Contractor-provided performance reports							
			1.4.1.6 - Determine performance attribution							
			1.4.6.7 - Accept/approve Performance Management Report							
			1.4.1.8 - Track GOC commitments							
			1.4.1.9 - Conduct audits of contractor performance data collection and reporting system							
			1.4.1.10 - Conduct semi-annual performance reviews							
		1.4.2 - Program Outcomes Reporting								
		1.4.3 - Strategic Requirements Reporting								
	1.5 - Program Change									
		1.5.1 - Change in Planned Inputs								
		1.5.2 - Continuous Improvement								
			Analysis/Implementation							

WBS Levels						CANADA			Third Line R+O Contractor	Outcomes	Comments
Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	First Line	Second Line	NCR/ 1 CAD			
2.0 - Enterprise Maintenance, Repair & Overhaul (MR&O)											
2.1 - First Line											
2.1.1 - Servicing Tasks											
2.1.1.1 - Daily/pre-use inspections											
Record inspection results/ faults found against CF 363											
2.1.1.2 - Basic troubleshooting											
2.1.1.3 - Refuelling											
2.1.1.4 - Cleaning of equipment											
2.1.1.5 - Transport to/from 2nd Line Workshops											
2.1.1.6 - Identify and route items for calibration (TEMMIS)											
2.1.1.7 - Perform Special Inspections (SI)											
2.2 - Second Line											
2.2.1 - Corrective Maintenance											
2.2.1.1 - Receive Item											
2.2.1.2 - Receive/ create Work Order											
2.2.1.3 - Diagnose/Troubleshoot											
2.2.1.4 - Inspect/Confirm fault											
2.2.1.5 - Dismantle											
2.2.1.6 - Clean											
2.2.1.7 - Inspect/Confirm fault											
2.2.1.8 - Repair or replace components											
2.2.1.9 - Re-Assemble Component/Module											
2.2.1.10 - Perform operational/functional Check											
2.2.1.11 - Raise Technical Issues outside of maintenance program (including but not limited to PIFs, UCRs, Deviations) to WSM/TA/LCMM											
2.2.1.12 - Identify items beyond scope of 2nd Level repair											
2.2.1.13 - Prepare items for shipping and route through supply to 3rd level for repair											
2.2.2 - Preventive Maintenance											
2.2.2.1 - Receive Maintenance Plan Notification (DRMIS)											
2.2.2.2 - Review Notification											
2.2.2.3 - Receive Item											
2.2.2.4 - Create Work Order for inspection (DRMIS)											
2.2.2.5 - Perform inspection											
2.2.2.6 - Complete any adjustments, fluid changes or repairs within scope of 2nd Level workshop											
2.2.2.7 - Perform Local Surveys and Special Inspections											
2.2.2.8 - Embody Modification Instructions											
2.2.3 - Tech Data Related Activities											
2.2.3.1 - Record Corrective Maintenance and Preventive Maintenance results against WO (DRMIS and CF 363)											
2.2.3.2 - Complete any documents required for shipping (CF 942, DND 2227 (supply documents)											
2.2.3.3 - Advise EMT/WSM of discrepancies in technical publications											
2.2.4 - Materiel Related Activities											
2.2.4.1 - Provide materiel support to MRPs											
2.2.4.2 - Demand parts required for CM and PM											
2.2.4.3 - Return A and B Class items to supply											
2.2.4.3.1 - Identify and package items											
2.2.4.4 - Ensure adequate supply of consumables is available for CM and PM											
2.2.4.5 - Obtain pricing and availability information for locally procurable items											
2.2.5 - M,R&O Support to Second Level Activities											
2.2.5.1 - Receive support for AMSE (painting, welding, NDT, etc) when required											
2.2.5.2 - Arrange for tool calibration and certification											
2.2.5.3 - Practice Tool Control											
2.2.5.4 - Adhere to Quality System (AF9000)											
2.2.5.5 - Dispose of Hazmat											
2.2.6 - Program Activities											
2.2.6.1 - Identify and participate in Flight Safety investigations, quarantines, impounding, reports, etc											
2.2.6.2 - Adhere to General Safety regulations											
2.2.6.3 - Provide training for new personnel											
2.2.6.3.1 - Enter/verify TARS codes											
2.2.6.4 - Provide/receive DRMIS training											
2.2.6.5 - Provide MRP as required											
2.3 - Third Line											
2.3.1 - Repair											
2.3.1.1 - Receive item										As described	
2.3.1.2 - Review/create Work Order										As described	
2.3.1.3 - Diagnose/troubleshoot issue										Review incoming documentation (CF 942), proceed to diagnosis/troubleshooting.	
2.3.1.4 - Dismantle										As described	
2.3.1.5 - Clean										As described	
2.3.1.6 - Inspect										Identify any issues not cited on CF 942	
2.3.1.7 - Confirm repair estimate is within MRC										Compare repair estimate to MRC data (DRMIS)	
2.3.1.8 - Approve repairs above MRC										Obtain approval from PA before undertaking	
2.3.1.9 - Conduct repair										As described	
2.3.1.10 - Final Assembly										As described	
2.3.1.11 - Perform Functional Test										Confirm that item performs to standard defined in CFTO	
2.3.1.12 - Accept repair (NDQAR)											
2.3.1.13 - Prepare for Shipment										Prepare for shipping per applicable CFTO.	
2.3.1.14 - Ship										Unless otherwise directed, return to CFSD.	
2.3.2 - Overhaul											
2.3.2.1 - Receive item										As described	
2.3.2.2 - Review/create Work Order										If DRMIS terminal is not available, this may be initiated by NDQAR.	
2.3.2.3 - Dismantle										As described	
2.3.2.4 - Clean										As described	
2.3.2.5 - Inspect										As described	
2.3.2.6 - Determine serviceability of components										As described	
2.3.2.7 - Repair or obtain replacement parts										Check CFSD/DRMIS for parts required before procuring replacement parts.	
2.3.2.8 - Reassemble item										As described	
2.3.2.9 - Test item										Confirm item functions to standard defined in CFTO	
2.3.2.10 - Accept overhaul (NDQAR)											
2.3.2.11 - Prepare for Shipment										Prepare for shipping per applicable CFTO.	
2.3.2.12 - Ship										Unless otherwise directed, return to CFSD.	
2.3.3 - Modifications, Special Inspections (SIs)											
2.3.3.1 - Develop and embody Modification Instructions										Develop Modification Instructions as directed by TA/LCMM	
2.3.3.2 - Perform Local Surveys and Special Inspections										Assist in local surveys as directed by TA/LCMM	
2.3.4 - Tech Data Related Activities											
2.3.4.1 - Provide any information required to maintain Configuration and Airworthiness Management										Provide technical data at DND's request.	
2.3.4.2 - Develop Special Inspection and Modification Instructions										Develop Special Inspection and Modification Instructions as directed by TA/LCMM	
2.3.4.3 - Update DRMIS with WO information										As described. If DRMIS access is unavailable, this may be performend by NDQAR.	
2.3.4.4 - Provide technical data on components										Provide technical data at DND's request.	
2.3.4.5 - Create CFTOs										As directed by TA/LCMM	
2.3.4.6 - Identify errors/discrepancies in publications										Notify TA/LCMM when discrepancies are found.	
2.3.4.7 - Correct publication errors/discrepancies										As directed by TA/LCMM	
2.3.5 - Engineering Support Activities											
2.3.5.1 - Liaise between OEM and EMT										As described	
2.3.5.2 - Technical Investigations/Engineering Services (FS or TA directed)											
2.3.5.2.1 - Quarantine, Teardown and Inspect (Strip Report)										As directed by TA/LCMM	
2.3.5.2.2 - Flight Safety Investigations										As directed by TA/LCMM	
2.3.5.2.3 - Equipment condition surveys										As directed by TA/LCMM	
2.3.5.2.4 - Repair development (Non-standard Repairs)										As directed by TA/LCMM	
2.3.5.3 - Provide Training for new equipment and capabilities										As requested by DND	
2.3.5.4 - Raise and address Technical Issues outside of maintenance program										Notify WSM of techical issues.	
2.3.5.5 - Provide on-site support to technical and contracting authorities										At PRMs and TRMs	
2.3.6 - Mobile Repair Party (MRP)											
2.3.6.1 - Identify Requirement for MRP											
2.3.6.2 - Plan MRP logistics - Technicians, spares, travel, technical data, tooling, tools, support											
2.3.6.3- Execute MRPs										Provide MRPs as directed by TA/LCMM	
2.3.6.4 - Return from MRPs and perform close-out - maintenance data, parts and tooling, reporting										As decribed; provide report to WSM	
2.3.7 - Supply Interface, Parts Demands, Returns, Scrap											
2.3.7.1 - Return completed repairs and spare parts to Defence Supply Chain (DSC)										As described	
2.3.7.2 - Provide princing and availability information to EMT as required.										As described	
2.3.7.3 - Demand parts for repairs from DSC										As described	
2.3.7.4 - Package and Preserve AMSE for shipping and storage										As described	
2.3.7.5 - MRC increase requests (overlap with Material Management)										Request authorization from WSM before exceeding MRC	
2.3.8 - Government Owned Materiel											
2.3.8.1 - Track GOM											

2.3.8.2 - Authorize/approve loan of GOM							
2.3.8.3 - Maintain GOM							
2.3.9 - Sub-Contract Work							
2.3.9.1 - Select Sub-contractor							
2.3.9.2 - Manage Sub-contract Agreements							
2.3.9.3 - Manage shipping and receiving to and from Sub-contractor(s)							
2.3.9.4 - Confirm Sub-contractor Certification							
2.3.10 - NDQAR Activities							
2.3.10.1 - Provide logistic support							
2.3.10.1.1 - Open and close Work							
2.3.10.2 - Manage quality control							
2.3.10.2.1 - Confirm satisfactory completion of repair (s)							
2.3.10.3 - Witness and record disposal activities (including demilitarization)							
2.4 - WSM							
2.4.1 - Program Support Activities							
2.4.1.1 - Flight Safety Program							
2.4.1.1.1 - Review Flight Safety investigation							
2.4.1.1.2 - Develop corrective actions for Flight Safety incidents							
2.4.1.1.3 - Monitor Flight Safety incident trends to mitigate future occurences							
2.4.1.2 - Define AMSE program support policy							
2.4.1.2.1 - Delineate work scope between 1,2, 3rd Level							
2.4.1.3 - Address 1st and 2nd Level maintenance support issues through Tech Review Meetings							
2.4.1.4 - Address 3rd Level maintenance support issues through semi-annual Tech Review Meetings						As described	
2.4.1.5 - Address Quality issues raised by NDQAR						As described	
2.4.1.5.1 - Determine Repair and Overhaul capabilities							
2.4.1.5.2 - Determine adequacy of QA systems							
2.4.1.5.3 - Determine quality inspection systems							
2.4.1.5.4 - Determine Documentation Control Systems							
2.4.1.5.5 - Provide assistance with interpretation of contractural requirements							
2.4.1.5.6 -Review of engineering changes and deviations							
2.4.1.5.7 - Review DND/Canada complaints						As described	
2.4.1.5.8 - Ensure contractor(s) meets their obligations, as defined in Tech SOW, Log SOW, and relevant publications							
2.4.1.6 - Liaise with other Programs/Groups							
2.4.1.6.1 - Provide maintenance data to OEM and other Operators (USN, USAF, other countries)						As described	
2.4.1.6.2 - Compare maintenance program and support issues to other Operators						As described	
2.4.1.6.3 - Engage other Govt/DND organizations (NRC, QETE, ATESS, etc) to resolve MRO related issues (overlap with Engineering WBS)						As described	
2.4.2 - Tech Data Support Activities							
2.4.2.1 - Ensure that equipment and components are catalogued (DRMIS. CGCS)							
2.4.2.2 - Review, approve and disseminate Modification Instructions, Special Inspections							
2.4.2.3 - Confirm that data on IETM is accessible and current							
2.4.3 - Material Support Activities							
2.4.3.1 - Action transfer of AMSE between units							
2.4.3.2 - Respond to AA Spares orders for parts (overlaps with Material)							
2.4.3.3 - Establish R&O requirements via issuing SNOMS, SNAPs, MRCs							
2.4.3.4 - Maintain SOR (DRMIS)							
2.4.3.5 - Maintain adequate levels of spare parts, equipment and consumables at depots							
2.4.3.6 - Review and authorize MRC increase requests							
2.4.3.7 - Request and authorize Technical Investigations/Engineering Services (FS or TA directed							
2.4.3.7.1 - Quarantine, Teardown and Inspect (Strip Report)						At direction of TA/LCMM	
2.4.3.7.2 - Flight Safety Investigations						At direction of TA/LCMM	
2.4.3.7.3 -Equipment condition surveys						At direction of TA/LCMM	
2.4.3.7.4 - Repair development (Non-standard Repairs)						At direction of TA/LCMM	
2.4.3.8 - Review and authorize Modification Instructions and Special Investigations.							
2.4.3.9 - Authorize and document disposal activities							
2.4.3.10 - Authorize and organize MRPs							
2.4.4 - Maintenance Data System Management							
2.4.4.1 - Utilize DRMIS to track equipment and record maintenance history							
2.4.4.2. - Define scheduled maintenance cycles							
2.4.4.3 - Create Maintenance Plan (DRMIS) for time or interval-based inspection							
2.5 - 1 Cdn Air Div							
2.5.1 - Program Management Activities							
2.5.1.1 - Authorize use of equipment							
2.5.1.2 - Publish and maintain authorization codes (Technical Authorization Record Set (TARS))							
2.5.1.3 - Oversight of contractor delivery of services to 1st, 2nd line (SLA PG OWSM)							
2.5.1.4 - Communicate unique/new operational requirements (environmental considerations - sand, ash, extreme temps etc)							
2.5.1.5 - Provide funding for AMSE sustainment							
2.5.1.6 - Resolve resource conflicts between Wings							
2.5.2 - Engineering Support Activities							
2.5.2.1 - Interaction/approval of Ops Related Deviations							
2.5.2.2 - Review TQA, equipment availability & supportability WRT changes to approved Maintenance Program							
2.5.2.3 - Review changes affecting scope to 1st, 2nd and 3rd level maintenance (A4)							
2.5.2.4 - Review changes affecting operator procedures, tactics, training pubs (A3)							
2.5.2.5 - Signing authorities on Deviations, RARMs of a significant nature							
2.5.3 - Materiel Support Activities							
2.5.3.1 - Coordinate support for deployed (domestic, international and continental) Ops							
2.5.4 - Flight Safety, AW Significant Items (ARA, RAN, RARMs) Monitoring							
2.5.4.1 - Flight Safety Program							
2.5.4.1.1 - Review Flight Safety investigation							
2.5.4.1.2 - Develop corrective actions for Flight Safety incidents							
2.5.4.1.3 - Monitor Flight Safety incident trends to mitigate future occurences							

WBS Levels						CANADA			Third Line R+O Contractor	Outcomes	Comments
Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	First Line	Second Line	NCR/ 1 CAD			
3.0 - Enterprise Engineering											
	3.1 - Technical Investigations (TI)										
		3.1.1 - Investigation/Research to Provide Input to Incidents/Reports									
			3.1.1.1 - Perform acceptance check							As described	
			3.1.1.2 - Complete Technical Investigation Reports (DND 1057)							As described	
			3.1.1.3 - Perform airworthiness investigations							As directed by WSM	
			3.1.1.4 - Perform flight safety investigations							As directed by WSM	
			3.1.1.5 - Perform environmental hazard assessments							Assist WSM in investigations	
			3.1.1.6 - Perform technical airworthiness risk assessments								
			3.1.1.7 - Authorize deviations on maintenance programs							Provide required information to WSM	
			3.1.1.8 - Perform Special Inspections (SIs)							As directed by WSM	
			3.1.1.9 - Identify design deficiencies							Notify LCMM/TA	
			3.1.1.10 - Modifications							As directed by TA/WSM	
			3.1.1.11 - Perform equipment condition surveys							As directed by TA/WSM	
	3.2 - Engineering Support (ES)										
		3.2.1 - Engineering Support Activities									
			3.2.1.1 - Conduct system engineering for all AMSE systems							As directed by TA/WSM	
			3.2.1.2 - Conduct inter-system integration for all AMSE systems							As directed by TA/WSM	
			3.2.1.3 - Update and maintaining the AMSE equipment inspection programs								
			3.2.1.4 - Raise and address technical issues outside of maintenance program (unusual, new or excessive wear/damage)							Notify LCMM/TA	
			3.2.1.5 - Determine optimum configuration							Notify LCMM/TA	
			3.2.1.6 - Recommend AW authorities								
			3.2.1.7 - Provide direct support for ad-hoc technical issues raised by 1-3rd level organizations								
			3.2.1.8 - Develop non-standard repair (NSR) schemes							Provide required information to WSM	
			3.2.1.9 - Modify corrective maintenance programs								
			3.2.1.10 - Modify preventive maintenance programs								
			3.2.1.11 - Authorize alternate parts								
			3.2.1.12 - Recommend/approve course of action for acceptance failures and follow-up							Provide required information to WSM	
			3.2.1.13 - Recommend/approve course of action for UCRs, and following up								
			3.2.1.14 - Brief 1st and 2nd Level on noted trends affecting support								
			3.2.1.15 - Investigate improvements to tooling, AMSE and test equipment							Provide information to WSM	
			3.2.1.16 -Assess impact of Deviation approvals								
			3.2.1.17 - Review TQA, equipment availability & supportability WRT changes to approved maintenance programs								
			3.2.1.18 - Review changes affecting scope to 1st, 2nd and 3rd level maintenance								
			3.2.1.19 - Review changes affecting operator procedures, tactics, training pubs								
			3.2.1.20 - Recommend/approve Deviations								
		3.2.2 - Engineering Change Management									
			3.2.2.1 - Evaluate Design Changes requiring Airworthiness Approval / Technical Airworthiness Clearance:								
				3.2.2.1.1 - Modifications							
				3.2.2.1.2 - Alterations							
				3.2.2.1.3 - Non-Standard Repairs							
				3.2.2.1.4 - Alternate Parts							
				3.2.2.1.5 - Changes to the approved role of the equipment							
				3.2.2.1.6 - Deviations to Preventive Maintenance Program							
				3.2.2.1.7 - Deviations to Corrective Maintenance Program							
			3.2.2.2 - Implement Engineering Change Approval Process								
				3.2.2.2.1 - Identify Standards and Specifications							
				3.2.2.2.2 - Develop Engineering Change							
				3.2.2.2.3- Test and Evaluate Engineering Change							
			3.2.2.3 Approve AW of Engineering Change								
	3.3 - Integrated Logistics Support (ILS)										
		3.3.1 - ILS Management									
			3.3.1.1 - Implement TIES taskings								
				3.3.1.1.1 - Initiate							
				3.3.1.1.2 - Develop							
				3.3.1.1.3 - Submit							
				3.3.1.1.4 - Recommend							
				3.3.1.1.5 - Approve							
				3.3.1.1.6 - Manage							
			3.3.1.2 - Collect and analyze Equipment Performance Data								
				3.3.1.2.1 - Address dependability. Will the system continue to operate properly for its ELE?							
				3.3.1.2.2 - Address capability. Is the system capable of fulfilling its requirement when it performs as designed?							
				3.3.1.2.3 - Review parts & parts application data							
				3.3.1.2.4 - Review AMSE failure/maintenance data							
				3.3.1.2.5 - Review mod/SI status data							
			3.3.1.3 - Address ILS Program Changes:								
				3.3.1.3.1 - Identify variations from the predicted R&O and to alter logistics support accordingly							
				3.3.1.3.2 - Perform trend analysis to determine the cause of any problem, to institute corrective action, prepare new procedures, develop modifications, etc.							
				3.3.1.3.3 - Provide data to support component life and rationalization procedures							
		3.3.2 - AMSE System/Sub-System Level									
			3.3.2.1 - Input/maintain technical data within departmental AMSE maintenance systems of record (DRMIS)							Provide WSM with required information	
			3.3.2.2 - Review/provide expert support on reports, documents, technical publications and engineering drawings received from or forwarded to RCAF operating units and Contractors for compliance with RCAF maintenance policy, standards and specifications.							Provide WSM with required information	
			3.3.2.3 - Provide systems expertise to TA staff, field maintenance personnel and other applicable agencies							Provide WSM with required information	
			3.3.2.4 - Develop/implement equipment modifications and improvements; prepare modification instructions							As directed by WSM	
			3.3.2.5 - Attend meetings to provide technical support (including international conferences)							As directed by WSM	
			3.3.2.6 - Accompany DGAEPM staff as required, on visits to the facilities/plants of other DND Contractor(s), engineering units and Canadian Forces Bases							As required/directed by WSM	
			3.3.2.7 - Carry out studies and directing programs to resolve logistics-generated systems degradation and technical faults and matters pertaining to AMSE								
			3.3.2.8 - Provide ILS input on DND projects/studies related to maintenance program issues								
			3.3.2.9 - Initiate modifications, special inspections and special information leaflets							As directed as WSM	
			3.3.2.10 - Review all flight safety incident reports and conduct an assessment of all AMSE-related flight safety incidents								
			3.3.2.11 - Determine equipment sparing level requirements for AMSE systems and equipment							Provide obsolescence information to WSM to assist in establishing sparing levels.	
			3.3.2.12 - Determine equipment and systems R&O requirements including surveillance of unusual wear characteristics							Notify WSM; provide technical assistance to mitigate issues.	
			3.3.2.13 - Review/recommend updates to Canadian Forces Publications (CFP) not supported by the Contractor, if tasked								
			3.3.2.14 - Identify surplus equipment and provide recommendations to Canada.							As described	
			3.3.2.15 - Execute disposal plans							As directed by WSM	
			3.3.2.16 - Investigating Unsatisfactory Condition Reports (UCR) and carrying out corrective action							As directed by WSM	
			3.3.2.17 - Draft Project and Trial/Test Directives required to task agencies such as Aerospace Engineering Test Establishment (AETE), Aerospace and Telecommunications Engineering Support Squadron (ATESS), and Quality Engineering Test Establishment (QETE) and monitoring project progress, reviewing plans and reports.								
			3.3.2.18 - Perform analyses/studies:								
				3.3.2.18.1 - Feasibility studies							
				3.3.2.18.2 - Maintenance studies							
				3.3.2.18.3 - Operational scenario studies;							
				3.3.2.18.4 - Failure studies (Qualitative & Quantitative)							
				3.3.2.18.5 - AMAF/APAF ILS validation							
				3.3.2.18.6 - DRMIS data queries & data interpretation							
	3.4 - Logistic Support Analysis (LSA)										
		3.4.1 - AMSE System/Sub-System Level									
			3.4.1.1 - Evaluate Engineering Change Proposals (ECPs) for ILS impact								
				3.4.1.1.1 - Level of Repair Analysis (LORA)							
				3.4.1.1.2 - Reliability & Maintainability (R&M) analysis							
				3.4.1.1.3 - Trending and analysis of AMSE systems and component failure data							
				3.4.1.1.4 - Maintenance Task Analysis							
				3.4.1.1.5 - Sparing Analysis							
				3.4.1.1.6 - Maintenance Program Analysis							
				3.4.1.1.7 - Life-Cycle Cost (LCC) analysis							
			3.4.1.2 - Provide identification and management of obsolescence of AMSE systems/components								
				3.4.1.2.1 - Identify/forecast, track, mitigate and correct the impact of obsolescence on AMSE equipment/systems							
				3.4.1.2.2 - Manage the replacement of obsolete and unsupportable components							
			3.4.1.3 - Respond to and provide R&O expert support to the AMSE engineering support teams, field units and R&O sub-contractors for assistance in overcoming R&O and logistics problems.							As described	
			3.4.1.4 - Provide technical/engineering services in support of materiel support services, including but not limited to, parts substitution or alternate parts identification; and							As described	
			3.4.1.5 - Integrate Airworthiness Requirements listed within the TAM with Engineering Support activities and processes.								
	3.5 - Configuration Management (CM)										
		3.5.1 - Changes to Approved ILS Baseline									
		3.5.2 - AMSE Configuration Management Policies, Plans and Procedures									
		3.5.3 - Develop and maintain process for Approval and Documentation of Design Changes									
		3.5.4 - Ensure completeness of any embodied Engineering Changes									
		3.5.5 - Monitoring/Updating of Support Requirements and Change Recommendations									
		3.5.6 - Review and Update AMSE Configuration Management Plan									
		3.5.7 - Baseline Change Implementation									
			3.5.7.1 - Approve Release of Design Change Instructions								
			3.5.7.2 - Control Configuration								
			3.5.7.3 - Implement Engineering Change							As directed by WSM	
			3.5.7.4 - Implement ILS Requirements Change								
			3.5.7.5 - Manage Technical Data								
	3.6 - Technical/Engineering Services										
		3.6.1 - Data Review for MRP								Prepare for MRP	
		3.6.3 - Specification Development									
		3.6.4 - SOW Development									
		3.6.5 - Requisition Development									
		3.6.6 - Proposal Evaluation									
		3.6.7 - Plan Development									
		3.6.8 - Recording of ECP								As directed by WSM	
		3.6.9 - Coordination of Tests and Evaluations								As directed by WSM	
		3.6.10 - Management of Paper Deliverables								As directed by WSM	

3.6.11 - Respond to Queries from Stakeholders						As required	
3.6.12 - Liaise with Suppliers, Vendors, and OEMs in Resolution of Routine Engineering and Maintenance Problems						As required	
3.6.13 - Review Correspondence/Documentation Received from TA but Generated by Other Agencies and Provision of Follow-On Recommendations						Provide advice/information to WSM	
3.6.14 - Maintenance of Technical Information Database							
3.6.15 - Advice on Product Improvement						Provide advice/information to WSM	
3.6.16 - Advice on Design Deficiencies and Design Changes						Provide advice/information to WSM	
3.6.17 - Coordination/Development of Technical Requirements Definition							
3.6.18 - Technical Issues Outside of Maintenance Program							
3.6.18.1 - UCRs							
3.6.18.2 - Deviations							
3.6.18.3 - Non-conforming parts							
3.6.18.4 - Request for Non-Standard Repair (NSR)							
3.6.18.5 - PDRs							
3.6.19 - Technical Problem Resolution							
3.6.19.1 - Technical Problem Analysis							
Approve Technical Problem Investigation							
3.6.19.2 - Technical Problem Solution Development							
Develop Technical Problem Solution							
3.6.19.3 - Manage Operational Testing and Evaluation							
3.6.19.4 - Technical Problem Solution Approval							
Review Technical Problem Solution							
3.6.19.5 - Approve/Release of SI							
3.6.20 - Provision of Technical/Engineering Solutions							
3.6.20.1 - Recommendations on Advances in AMSE Technology.						Provide advice/information to WSM	
3.6.20.2 - Attendance at Conferences, Symposia and Exhibitions						As required/directed by WSM	
3.6.21 - Provision of Liaison Engineering							
3.6.21.1 - Provide maintenance data to OEM and other Operators						As required	
3.6.21.2 - Compare maintenance program and support issues to other Operators						As required	
3.6.21.3 - Engage other Govt/DND organizations (NRC, QETE, ATESS, etc) to resolve MRO related issues (overlap with Engineering WBS)							
3.6.21.4 - Engage outside Contractor organizations to resolve MRO related issues (overlap with Engineering WBS)						As directed by WSM	
3.6.21.5 - Establish interface with specialist support within DGAEPM, ADM (MAT), 1 CAD, OTU, and other DND organizations and contractors						As directed by WSM	
3.6.21.6 - Liaise with the field / Air Div / CAS (i.e. DAR)							
3.6.21.7 - Liaise with other directorates							

WBS Levels						CANADA			Third Line R+O Contractor	Outcomes	Comments
Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	First Line	Second Line	NCR/ 1 CAD			
4.0 - Enterprise Materiel (Defence Supply Chain (DSC) - formerly known as CFSS)											
	4.1 - FAA Compliance Documentation										
		4.1.1 - Spending Authorization Form (SAF)									
			4.1.1.1 - DAP obtains SAF from RC Manager								
			4.1.1.2 - DAP keeps SAF on file								
		4.1.2 - Procurement Initiation Request Form (PIRF)									
			4.1.2.1 - DAP obtains PIRF from responsible Resource Manager								
			4.1.2.2 - DAP specifies materiel and quantities to be purchased								
			4.1.2.3 - DAP keeps PIRF on file								
		4.1.3- Financial Blanket Approval Form (FBAF)									
			4.1.3.1 - DAP obtains FBAF from RC Manager								
			4.1.3.2 - DAP keeps FBAF on file								
	4.2 - Planning										
		4.2.1 - Forecasting - Current Activities									
		4.2.2 - Forecasting - Future Activities									
			4.2.2.1 - Identify removal for scheduled maintenance (service intervals)								
			4.2.2.2 - Forecast unscheduled removals								
			4.2.2.3 - Identify Bill of Materiel to support scheduled removals and unscheduled removals							Generate materiel requirements	
			4.2.2.4 - Calculate annual materiel requirements to support sum of BOMs								
			4.2.2.5 - Calculate adequate sparing levels								
			4.2.2.5 - Verify holdings of materiel								
			4.2.2.6 - Procure required inventory based on spa								
		4.2.3 - Financial Review, Support and Oversight									
	4.3 - Procurement Approach - Inventory Types										
		4.3.1 - Parts w/ NSN - CIS (Contract-Issued Spares) Included									
			4.3.1.1 - Review priority demands which cannot be satisfied from existing stock								
			4.3.1.2 - Receive Recommended Order Buys (ROB) reports and establish reorder priorities								
			4.3.1.3 - Identify future materiel requirement								
			4.3.1.4 - Cost materiel requirements								
			4.3.1.5 - Seek approval for commitment of funds in PIRF/SAF								
			4.3.1.6 - RC Manager approves PIRF/SAF								
			4.3.1.7 - Research potential sources of supply								
			4.3.1.8 - Review existing materiel assets, including:								
				4.3.1.8.1 - Items in repair pipeline							
				4.3.1.8.2 -Substitutions							
				4.3.1.8.3 -Excess holding at bases							
				4.3.1.8.4 -Other excess holdings							
				4.3.1.8.5 -Alternates listed under family head							
			4.3.1.9 - Determine best method of satisfying ROBs (Recommended Order Buys)								
			4.3.1.10 - Determine if requirement should be totally or partially filled								
				4.3.1.11 - Ensure compliance with all federal procurement policies and regulations, including Controlled Goods						As described	
			4.3.1.12 - COLOG								
				4.3.1.12.1 - Check Federal Logistics (FEDLOG) website to see if available and acquisition code (which indicates whether or not DND is able to procure as non-US customer)							
				4.3.1.12.2 - If necessary, obtain P&A, current stock holdings and Maximum Reorder Quantity (MRQ) by asking							
				4.3.1.12.3 - If requirement is below MRQ (US mechanism to ensure that one customer does not empty shelf, thereby putting US interests at risk) and below $25K proceed with ordering.							
				4.3.1.12.4 - Interaction with D Svcs C and Supply Manager							
				4.3.1.12.5 - If items in FEDLOG aren't controlled by DLA, then liaise with CFLL units							
			4.3.1.13 - If not procurable through COLOG, then use either LPO or PSPC ordering process								
			4.3.1.14 - Cataloguing activities								
				4.3.1.14.1 - LCMM catalogues parts.							
				4.3.1.14.2 - Obtain DMC code for Controlled Goods, if required							
				4.3.1.14.3 - LCMM to ensure all item with NSN have QAC assigned (avoids quarantine at depot; assists in selection of appropriate QA SACC clauses)							
				4.3.1.14.4 - Determines if it should be consumable (under $1000) or accountable. If accountable, then will determine if it should be Category B (which is repairable at 3rd Line) or Category F (which is repairable at 2nd Line, then 3rd Line). Note: an accountable-consumable is still controlled.							
				4.3.1.14.5 - Determine MRC value and/or staff requests for change to R&O							
				4.3.1.14.6 - Define repairability of each part.							
				4.3.1.14.7 - Review order quantities and lead-times							
				4.3.1.14.8 - LCMM and SM review requests for lifetime buys							
				4.3.1.14.9 - Consult with technical staff (LCMM and TA), as required							
				4.3.1.14.10 - Local procurement							
		4.3.2 - Parts w/o NSN - Advanced Accountable Spares (AAS)									
			4.3.2.1 - Receipt/review/fulfilment of demand							Identify 3rd line materiel required for R&O for DND consider procuring.	
				4.3.2.1.1 - Identify future materiel requirement							
				4.3.2.1.2 - Obtain P&A from supplier							
				4.3.2.1.3 - Submit request for purchase of AAS to PA							
				4.3.2.1.4 - Review request							
				4.3.2.1.5 - Submit to TA to validate requirement							
				4.3.2.1.6 - Approve if If AAS request is valid and if funds are available.							
				4.3.2.1.7 - Contractor purchases AAS						Purchase inventory and invoice Canada	
				4.3.2.1.8 - Contractor receives AAS and provides storage							
				4.3.2.1.9 - Contractor pays supplier's invoice							
				4.3.2.1.10 - Contractor invoices Canada and provides supplier's invoice as back-up							
		4.3.3 - Parts w/o NSN - Government Furnished Overhaul Spare (GFOS/GOM)									
			4.3.3.1 - Generation of GFOS								
				4.3.3.1.1 - TA approves reduction to spares							
			4.3.3.2 - Contractor provides storage of GFOS items							Store and safeguard sufficient DND inventory to support R&O process	
			4.3.3.3 - Contractor provides inventory record-keeping system								
			4.3.3.4 - Contractor invoices Canada embodiment charge once GFOS incorporated into Repair Line.								
		4.3.4 - Parts w/o NSN - Contractor Furnished Materiel (CFM)									
			4.3.4.1 - Contractor procures, invests and stores CFM until needed on repair line							Purchase sufficient contarctor inventory to support R&O process.	
			4.3.4.2 - Once embodied into repair, Contractor invoices Canada (price of the part + embodiment charge)								
4.4 - Parts Procurement											
		4.4.1 - Inventory Holdings Review									
			4.4.1.1 - Redistribute excess holdings to satisfy requirement. If not, proceed with procurement action.								
		4.4.2 - Parts w/ NSN - CIS Included									
			4.4.2.1 - Raise requisitions (for parts w/ NSN) via PWGSC, COLOG or Standing Offers								
			4.4.2.2 - Process High Priority Requests (HPR) priority codes 1, 2, 3, 4 and/or ROBs								
			4.4.2.3 - Staff procurement documents as required								
			4.4.2.4 - Provide certification under Section 32 of the Financial Administration Act (FAA)								
			4.4.2.5 - Determine level of signing authority required on procurement instrument								
			4.4.2.6 - Execute Procurement (DND/PSPC)								
			4.4.2.7 - Follow up on delivery, especially for urgent requirements								
			4.4.2.8 - Filing of procurement file on RDIMS								
		4.4.3 - Parts w/o NSN - Advanced Accountable Spare (AAS)									
			4.4.3.1 - Contractor identifies requirement for AAS, gets P&A and submits request to purchase to PA.							As described	
			4.4.3.2 - PA/TA review.								
			4.4.3.3 - Purchase of AAS recommended by TA, then approved by PA								
			4.4.3.4 - Upon receipt, materiel stored in DND-caged area until required.							As described	
		4.4.4 - Parts w/o NSN - Contractor Furnished Materiel (CFM)									
			4.4.4.1 - Contractor procures, invests and stores CFM until needed on repair line								
			4.4.4.2 - Once incorporated into the Repair Line, Contractor invoices Canada (price of the part + embodiment charge)							As described	
		4.4.5 - Non-Conforming Parts									
			4.4.5.1 - WSM determines disposition of non-conforming parts and issue instructions (repair, rework or even acceptance "as-is")								
			4.4.5.2 - QAR determines acceptance/rejection of non-conforming part and requests corrective action. QAR may grant/accept rework on minor deviations, but it is not the norm.								
		4.4.6 - HPR Management									
			4.4.6.1 - Input demand to Wing Supply								
			4.4.6.2 - Wing Supply contact depot								
			4.4.6.3 - SM moves SC from depot to depot (a reservation) as required								
			4.4.6.4 - SM buys it (if consumable item)								
			4.4.6.5 - SM goes to LCMM (if accountable item)								
			4.4.6.6 - LCMM engages 3rd Line								
			4.4.6.7 - QAR can authorize O/T at 3rd Line or move up priority of repair								
			4.4.6.8 - Rob other equipment								
				4.4.6.8.1 - Validate parts are available						Present solutions to inventory shortfalls in order to fufil HPR requirements.	
				4.4.6.8.2 - Obtain authorization of LCMM/TA							
4.5 - Deployments and/or Operations											
	4.5.1 - Role of Canadian Joint Operations Command (CJOC)										
			4.5.1.1 - CJOC directs Task Force Generator (TFG). TFG is responsible for:								
				4.5.1.1.1 - Identifying materiel required for mission							
				4.5.1.1.2 - Issuing materiel to proper theatre Storage Location (SLoc)							
				4.5.1.1.3 - Packing materiel into sea containers and ship into theatre							
				4.5.1.1.4 - Ensure national interests wrt asset visibility, accountability and integrity of audit trails							
			4.5.1.2 - Canadian Forces Joint Operational Support Group (CFJOSG) plans and executes sustainment of AMSE								
				4.5.1.2.1 - Coordinate delivery of materiel and equipment along strategic lines of communications							

4.5.1.2.2 - Coordinate return and disposal of materiel and equipment on mission close-out							
4.5.1.2.3 - Canadian Materiel Support Group (CMSG) (subordinate to CFJOSG) provides operational-level support, warehousing and distribution for materiel, transportation services and executes reach-back for provision of additional materiel.							
4.5.1.2.4 - 3 CSU ships all initial materiel into theatre, provides asset visibility, is initial POC for any supply problems, coordinates overland shipments, receives materiel							
4.5.1.2.5 - 4 Canadian Forces Movement Control Unit (4 CFMCU) provides control of materiel moving through both Cdn and foreign Strategic Lines of Communication.							
4.5.1.3 - Mission Closure Team (MCT) or a Mission Drawdown Team (MDT) closes out a mission by doing the stocktaking, preparation, packaging and loading of materiel.							
4.5.2 - Disposal of Surplus Materiel in Theatre							
4.5.2.1 - DGAEPM declares materiel surplus prior to disposing in theatre, if requested through CJOC J3.							
4.6 - Repair of Repairables							
4.6.1 - Planning/Forecasting							
4.6.1.1 - Planning of requirements using in-house Technical team knowledge							
4.6.1.2 - LCMM to forecast future arisings							
4.6.1.3 - TA reviews LCMM's recommendations							
4.6.1.4 - Develop long-term materiel support strategies							
4.6.1.5 - Make buy vs. repair decision (Repairable Reserve)							
4.6.1.6 - Analysis of repairable, including investigating alternative testing criteria (see also Engineering WBS)							
4.6.1.7 - Airworthiness requirements - Integrate airworthiness requirements into Materiel Support Activities							As described
4.6.1.8 - Continuous improvement							
4.6.1.9 - For items selected to be repaired (on SNAPS):							
4.6.1.9.1 - Ensure that repair qty within forecast							Actively ensure that repairables are moving intothe repair line.
4.6.1.9.2 - Observe free-flow R&O process							
4.6.1.9.3 - Processes Stores Removal Requests (SRR)							
4.6.1.9.4 - Ensures items selected require repair							
4.6.1.9.5 - Verifies items reflect correct repair category and family head information							
4.6.1.10 - For items not selected for repair:							
4.6.1.10.1 - Add to RR inventory at depots							
4.6.1.10.2 - Add to existing SNAPS, if possible							
4.6.1.10.3 - Raise requisition for							
4.6.1.10.4 - Using FMS case for repair							
4.6.1.10.5 - Using multi-user Fleetway contract for one-time							
4.6.1.10.6 - Disposal and replace with new							
4.6.2 - First Line							
4.6.2.1 - Direct repairable components from 1st to 2nd Line/Supply							
4.6.2.2 - Disposal of accountable consumable is tracked (i.e. one for one exchange with Supply)							
4.6.2.3 - Complete applicable documentation to							
4.6.3 - Second Line							
4.6.3.1 - Receive mat'l from 1st Line							
4.6.3.2 - 2nd Line will repair if possible and return back to Supply (see also Maintenance WBS)							
4.6.3.3 - Whenever 2nd Line cannot complete repair, either dispose of it or send it to 3rd Line							
4.6.4 - Third Line							
4.6.4.1 - Receive mat'l from depots and 2nd Line							
4.6.4.2 -Third Line will repair if possible and return back to Supply or to unit							
4.6.4.3 - Whenever 3rd Line cannot complete repair, request disposition direction from TA/LCMM							
4.6.4.4 - Repair to Selection Notice Priority Summary (SNAPS) levels.							As described
4.6.4.5 - Process Priority Repair Requests (PRR)							
4.6.4.6 - Contractor inducts items							
4.6.4.7 - Open work order in DRMIS							
4.6.4.8 - Quarantine materiel							
4.6.5 - WSM							
4.6.5.1 - Maintain SNAPS (coordinated activity							
4.6.5.1.1 - LCMM analyses requirements and comes up with forecast (annually)							
4.6.5.1.2 - LCMM fwds forecast to TA for approval							
4.6.5.1.3 - Forecast is submitted to							
4.6.5.1.4 - SM raises Priority Action List (PAL) and submits to LCMM for review, approval and then furtherance to SM							
4.6.5.1.5 - PA reviews PAL, provides approval (looks at financial impacts to the contract ceiling) and submits to SM							
4.6.5.1.6 - SM sends fully approved PAL to +R&O email box for action							
4.6.5.1.7 - DQA retrieves email out of the +R&O email box and processes PAL request							
4.6.5.1.8 - DQA reviews changes to SNAPS levels to determine if QAR staffing levels need to be amended							
4.6.5.1.9 - Receives SNAPS change report							As described
4.6.6 - Warranty							
4.6.6.1 - Address warranty considerations and process failures							As described
4.6.6.2 - Failures under Warranty							
4.6.6.2.1 - Assess reported conditions which gave rise to warranty action.							As described
4.6.6.2.2 - Determine root cause and implement preventative action							As described
4.6.6.3 - Investigation of failure							
4.6.6.3.1 - Determine root cause, review all documentation							
4.6.6.3.2 - Notify DQA who then re-evaluates activities within Contractor's facility							
4.6.6.4 - Prepare Technical Investigation Report							As described
4.6.6.5 - Determine item eligibility for warranty							As described
4.6.7 - Quality Assurance							
4.6.7.1 - Perform risk assessment on processes and control mechanisms of Contractor							
4.6.7.2 - QAR validates processes at Contractor's site							
4.6.7.3 - Confirm contractor's Quality Management System is compliant with ISO 9001							
4.6.7.4 - Contractor maintains procedures for R&O activities							
4.6.7.5 - R&O at Contractor's facility conforms to contract clauses, specifications, SOWs and their Quality Plan							
4.6.8.6 - Contractor's Inspection stamps issued on repaired materiel							As described
4.6.7.7 - Contractor's test equipment is calibrated and maintained							As described
4.6.7.8 - First Article Inspection							
4.6.7.9 - Identify deviations to standard repairs or configurations							As described
4.6.7.9.1 - Annotate CF documentation whenever a deviation has occurred in the R&O process.							As described
4.6.8 - Publications							
4.6.8.1 - Safeguard DND pubs held at contractor sites. Electronic records to be stored on contractor's server and DND systems.							As described
4.6.8.2 - Maintain R&O work instructions, technical order books/ keep up-to-date with current revisions by exchanging old material with new. Then sign off on Record of Changes document inserted into front of each CFTO manual to indicate type of change and date.							
4.6.8.3 - Ensure that most recent copy of technical documents (per Interactive Electronic Technical Manual (IETM)) is used. When electronic CFTO is printed, mark with "printed copies are considered uncontrolled copies and are for your reference only" then discarded after use.							
4.6.9 - Reduction to Spares							
4.6.9.1 - Review of GFOS to identify surplus items							
4.6.9.2 - Determine if activity is viable							Reduce to spares as directed by DND
4.6.9.3 - Authorize contractor to perform activity							
4.6.9.4 - Return items to inventory							
4.6.10- Closure of R&O Line							
4.6.10.1 - Closure of RMA							
4.6.10.2 - Closure of CRPA							
4.6.10.3 - Clearing of inventory issues							Perform closure activities in accordance with the contarct.
4.6.10.4 - Return of inventory to DND							
4.6.10.5 - Organizing close-out activities, financial reconciliation							
4.6.10.6 - Finalize rate negotiations, contract amendment							
4.6.11 - Disposal							
4.6.11.1 - Mutilate controlled items IAW demil instructions							
4.6.11.2 - Provide demil instructions							Disposal in accordance with aplicable standards
4.6.11.3 - Retain business decisions for disposal							
4.6.11.4 - Scrapping of materiel							
4.6.11.5 - Provide demil certificates							
4.6.11.6 - Tracking of scrapped materiel							
4.7 - Inventory/Parts Management							
4.7.1 - Maintain Visibility of DND Materiel							
4.7.1.1 - Maintain DND system of record							As described
4.7.1.1.1 - Set Reorder Point / Reorder Quantity (ROP/ROQ) for depot							
4.7.1.1.2 - Maintain parts record information and make adjustments to system of record as required (i.e. shelf life, Category Codes, superseded info, obsolete items etc.).							
4.7.1.1.3 - Analytical review (i.e. parts spending, inventory rationalization, overdue orders)							
4.7.1.1.4 - SCA verification							
4.7.1.1.5 - Resolve cataloguing issues (i.e. stock codes without ERNs or with multiple ERNs)							
4.7.1.2 - Adhere to accounting policies of Treasury Board							As described
4.7.1.3 - Track serialized items centrally.							
4.7.1.4 - DND stock and asset visibility:							
4.7.1.4.1 - Track all materiel movement in DRMIS							
4.7.1.4.2 - Ensure Shipments have CofC							
4.7.1.4.3 - Maintain CRPA (Contractor Repair Parts Account) (set min/max, adjust levels)							Maintain asset visibility on DND assets
4.7.1.4.4 - Use Repairable Materiel Account (RMA) for holding of DND materiel							
4.7.1.4.5 - Maintain ready-use/consumable stock levels (2nd Line)							
4.7.1.4.6 - Reporting on inventory levels and/or values							
4.7.2 - Controlled Goods							
4.7.2.1 - Identify and designate Controlled Goods							
4.7.2.2 - Ensure all controlled technical data in hardcopy and electronic format are marked accordingly							
4.7.2.3 - Develop and approve demilitarization instructions							

4.7.2.4 - Retain certification of demilitarization						
4.7.2.5 - Report any compromise of Controlled Goods or Controlled Technology within 48 hours					As described	
4.7.2.6 - Complete Controlled Goods training					As described	
4.7.4 - Non-Conforming Parts						
4.7.4.1 - Segregate non-conforming parts						
4.7.4.2 - Ensure non-use						
4.7.5 - Wing Supply Roles						
4.7.5.1 - Provide Wing-level (local) inventory management						
4.7.5.2 - Provide training of supply personnel, distribution account holders and units						
4.7.5.3 - Coordinate repairs through either 2nd line or 3rd line						
4.7.5.3.1 - Prepare documentation (DND 2227/2228, CF-942 tag)						
4.7.6 - Squadron Logistics Organization Roles						
4.7.6.1 - Account for materiel issued to unit						
4.7.6.1.1- Discrepancy resolution (at the unit level)						
4.7.6.1.2- Enter materiel transactions in DRMIS (both accountable and consumable)						
4.7.6.1.3- Maintain listing of account holders						
4.7.6.1.4 - Action any audit findings regarding inventory						
4.7.6.1.5 - Stocktaking of all materiel on charge to unit						
4.7.6.2 - Calculate requirements and requisition materiel IAW actual needs						
4.7.6.3 -During deployments: return surplus materiel, scrap, and reusable containers to base supply						
4.7.6.4 - Liaise with Ops Officer re: logistics requirements for planned unit/sqn training and operations						
4.7.6.5 - Assign and adjust priority of demands as required						
4.7.6.6 - Coordinate and gather all required parts/equipment for MRP						
4.7.7 - Kitting and Sets						
4.7.7.1 - Maintain kitting lists for equipment sets					As described	
4.7.7.2 - Ensure kits are complete per Equipment Checklists (ECL)					As described	
4.7.7.3 - Select kit for issue (i.e. deployment)						
4.7.7.4 - Replenishment of PUK						
4.7.7.5 - Maintain deviation records						
4.7.8 - Alternate Parts						
4.7.8.1 - Detailed review of part information					Follow TAM for alternate parts approval	
4.7.8.2 - Provide relevant technical data						
4.7.8.3 - Follow AW approval process as detailed in TAM						
4.7.9 - First Article Inspection						
4.7.9.1 - Perform First Article Inspection on newly added manufactured items						
4.7.10 - Loan of Materiel to Third Line Contractors						
4.7.10.1 - Create and manage Loan Agreement						
4.7.10.2 - Perform 100% socktaking at contractor facilities every two years					As described	
4.7.10.3 - At close of commercial R&O contract:						
4.7.10.3.1 - .Perform stocktaking					As described	
4.7.10.3.2 - Assess loaned materiel (i.e. inspection for damage which is beyond normal wear and tear)						
4.7.10.3.3 - Pack/Move loaned materiel to either depot or to new Contractor					As described	
4.7.11 - Repairable Reserve (RR)						
4.7.11.1 - Approve shipment of repairable materiel to RR						
4.7.11.2- Identify RR materiel with CF942 tag					As described	
4.7.11.3 - Retain RR materiel at depot pending order to send for repair						
4.7.11.4 - Perform annual review of RR items						
4.7.11.5 - Identify and dispose of surplus RR						
4.7.12 - Excess Materiel and Dormant Stock						
4.7.12.1 - Identify excess materiel during stocktaking or by analysis of inventory holdings					Assist DND to keep suplus materiel for accumulating	
4.7.12.2 - Reallocate stock to other SLoc which have demands for materiel (internal redistribution within DSC)						
4.7.12.3 -Complete Excess Materiel Report for requestor, latter sends excess materiel to depot						
4.7.12.4 - Assess impact of Excess Materiel returns on depot operations and storage capacity/costs.						
4.7.12.5 - Set and adjust min/max levels to correct levels in System of Record						
4.7.12.6 - Generate/execute disposal plan and adjust System of Record.						
4.7.13 - Obsolescence Materiel Mangement						
4.7.13.1 - Identify Obselete materiel					Assist DND in obsolesence management	
4.7.13.2 - If items have reached EOL, follow EOL procedure for disposal						
4.7.13.3 - If items have not reached EOL, generate and execute Disposal Plan						
4.7.13.4 - Adjust System of Record.						
4.8 - Distribution						
4.8.1 - Report Preservation and Packaging Failures - CF777, Unsatisfactory Condition Report						
4.8.2 - Materiel Packaging						
4.8.2.1 - Specify cleaning, preservation, protection and packaging of materiel IAW regulations and/or SACC clauses.						
4.8.2.2 - Perform preservation (or application of protective measures) to ensure that materiels are protected against deterioration. This includes cleaning, drying and the use of preservatives, barrier materials, cushioning and containers, when necessary.					As described	
4.8.3 - Shipping						
4.8.3.1 - Ship according to priority codes (Materiel Priority Codes) (MPC))						
4.8.3.2 - Ensure appropriate shipping containers are used					Move DND materiel IAW relevant policies/procedures.	
4.8.3.3 - Ship IAW A-LM-158-004/AG-001 Transportation Manual, Volume 4, Movement of Materiel						
4.8.3.4 - Materiel Receipt and Discrepancy Resolution - Account Holders						
4.8.3.5 - Materiel Routing - Prime Contractor to/from Sub-Contractors						
4.8.3.6 - Materiel Receipt and Validation Against Shipping Documentation					Assist DND to ensure asset visibility is maintained and the integrity of the DND system of record(DRMIS) is maintained thorughout the shipping process.	
4.8.3.6.1 - Match NSN on item to shipping manifest						
4.8.3.6.2 - Verify item count						
4.8.3.6.3 - Check for external damage						
4.8.3.6.4 - Place items that have improper packaging into quarantine and adjust holdings in DRMIS into blocked stock						
4.8.3.6.4.1 -Raise Discrepancy Reports, and investigate their resolution IAW Supply Administration Manual (A-LM-007-100/AG-001)						
4.8.3.6.5 -Transfer to the correct Plant and Storage Location						
4.8.3.6.6 -Forward vendor's packing slip/invoice to procurement/material management division responsible for payment						
4.8.3.6.7 -Perform technical inspection IAW Supply Administration Manual (A-LM-007-100/AG-001)						
4.8.3.6.8 -Sign and date receipt document						
4.8.3.6.9 -Verify that goods received match goods on Purchase Order						
4.8.3.6.10 -Verifiy if materiel is shelf-life sensitive, date of manufacture and expiry date						
4.8.3.6.11 -Verifiy if materiel is serialized i.e. has Serial Number						
4.8.3.7 - Blocked shipments (items pending due to Discrepancy Report) cannot be receipted into inventory.						
4.8.3.7.1 - Item put into blocked stock						
4.8.3.7.2 - Discrepancy number assigned						
4.8.3.7.3 - Discrepancy number forwarded to EMT/SM						
4.8.3.7.4 - Corrective action is taken by EMT/SM						
4.8.3.8 - Customs						
4.8.3.8.1 - Generate compliant customs paperwork						
4.8.3.8.2 - Forward documentation to customs broker						
4.8.3.8.3 - Track progress of shipment						
4.8.3.9 - Generate shipping transaction in DRMIS and/or NMDS						
4.8.3.9.1 - Establish dues-in at destination SLoc						
4.8.3.9.2 - Action shipping orders to SLoc as requested						
4.8.3.10 - Observe Controlled Goods regulations					As described	
4.8.3.11 - Packaging materiel						
4.8.3.12 - Inspect materiels used for cleaning, preservation, protection and packaging IAW regulations and applicable CFTOs					As described	
4.8.13 - Materiel Issue						
4.8.13.1 - Over-the-counter materiel issues:						
4.8.13.1.1 - Provide DND2227 to Sup Tech						
4.8.13.1.2 - Issue of Material directly within same MRP						
4.8.13.1.3 - Issue of consumable item to Cost Centre						
4.8.13.2 - Transfer between SLOC						
4.8.13.2.1 - Confirm Transfer Order						
4.8.13.2.2 - Receive and store serviceable item						
4.8.13.3 - Materiel Issue to Work Order						
4.8.13.3.1 - Determine if materiel in stock or not						
4.8.13.3.2 - Determine if materiel is serialised or not						
4.8.13.3.3 - Issue materiel						
4.8.14 - AMSE Movement						
4.8.14.1- EMO is covered under Supply Administration Manual A-LM-007-100/AG-001, part 5.6						
4.8.14.2 - Quartermaster Transfer Order (QTO), Equipment Movement Order (EMO).						
4.9 -Warehousing						
4.9.1 - Comply with Directorate Materiel Group						
4.9.2 - Comply with Director Supply Chain						
4.9.2.1 - Respond to submission requests from DSCO						
4.9.2.2 - Create and submit annual stocktaking performance reports						
4.9.2.3 - Create and manage stocktaking plans					As described	
4.9.2.4 - Provide inputs into annual Letter of Materiel Attestation						
4.9.2.5 - Enforce stocktaking performance standards across department						
4.9.3 - Stocktaking: 100% Inventory - Every 2 Years						
4.9.3.1 - Account for all materiel holdings						
4.9.3.2 - Account Holders (w/ help from the SupO/LogO) create and maintain stocktaking schedule						
4.9.3.3 - Compare counts to system of record and investigates discrepancies						
4.9.3.4 - Reconcile levels with DRMIS and/or manual records						
4.9.3.5 - If required, complete and execute CF152 (Write-off and/or write-on) report					Perform stocktaking activities in accordance with contract terms and conditions.	
4.9.3.6 - For tracked equipment, verify serial numbers match system of record						
4.9.3.7 - If required, correct DRMIS data						
4.9.3.8 - Verify that goods have not exceeded expiry date (if applicable)						

4.9.3.9 - Verify that applicable documentation (CofC, Mat'l Safety Data Sheet) is available or is co-located with materiel							
4.9.3.10 - Perform trend analysis and monitor discrepancies for misappropriation							
4.9.4 - Control of Stored Materiel							
4.9.4.1 - Provide storage facilities for AAS, GFOS, CIS, repaired items						Store and safeguard DND materiel while it is under contractor's care custody and control.	
4.9.4.2 - Preserve stored equipment IAW applicable CFTOs							
4.9.4.3 - Periodically assess condition of inventory							
4.9.4.4 - Quarantine storage areas are used where necessary							
4.9.4.5 - Protection against damage, deterioration and theft							
4.9.4.6 - Assign/maintain bin locations							
4.9.4.7 - Ensure that stock items with shelf life are not expired							
4.9.4.8 - Ensure that each item or unit pack with shelf life is tagged with CF1277 Shelf Life Control Tag							
4.9.5 - Compliance with Occupational Health and Safety Standards							
4.9.5.1 - Safety in handling materiel						Comply with occupational health and safety legislation.	
4.9.5.2 - Fire Safety							
4.9.5.3 - WHMIS labelling							
4.9.5.4 - Respect environmental policies							
4.9.5.4.1 - Maintain spill response process (i.e. keeping spill kits on-hand)							

WBS Levels	CANADA			Third Line R+O Contractor	Outcomes	Comments
Level 1 / Level 2 / Level 3 / Level 4 / Level 5 / Level 6	First Line	Second Line	NCR/ 1 CAD			
5.0 - Enterprise Technical Data & Intellectual Property						
5.1 - Intellectual Property						
5.1.1 - IP Rights						
5.1.1.1 - Escrow						
5.1.1.2 - Foreground intellectual property						
5.1.1.3 - Background intellectual property						
5.1.1.4 - Rights to access						
5.1.1.5 - Ownership						
5.1.1.6 - Distribution (proprietary data, distribution restrictions, copyrights)						
5.1.2 - Licenses					Obtain any licences required to service AMSE	
5.1.3 - ITAR					Subject to ITAR requirements	
5.1.4 - Controlled Goods (CG) Certification					Must have Controlled Goods certification to perform work on AMSE	
5.1.5 - User Groups & Cooperative Agreements						
5.1.5.1 - International with other military users						
5.1.5.2 - Civilian user groups						
5.1.5.3 - MOUs with other nations						
5.1.6 - Technical Data Package Management						
5.1.6.1 - Technical Data Management Strategy						
5.1.6.2 - Technical Data Management Assessment						
5.1.6.3 - Technical Data Translation Requirements						
5.1.6.4 - Technical Data Communication						
5.1.7 - Format						
5.2.7.1 - DND format (language, legibility, reproducibility, version control, completeness, tracking, identification)						
5.1.8 - Tech Data Access Requirements						
5.1.9 - Tech Data Fidelity/Integrity						
5.1.10 - Parts Traceability Requirements						
5.1.11 - Technical Data Management Services						
5.1.11.1 - Identify and establish data requirements						
5.1.11.2 - Acquire engineering data					Obtain required engineering data from OEMs or through testing, as directed by WSM.	
5.1.11.3 - Revise engineering drawings and associated data					Revise drawings as directed by WSM, to DND standards.	
5.1.11.4 - Inspect and accept data						
5.1.11.5 - Store and archive technical data						
5.1.11.6 - Maintain a technical data retrieval system					Provide technical data to WSM to ensure that data in retrieval system is current.	
5.1.11.7 - Identify surplus technical data and publications					Identify and advise WSM of outdated and surplus publications.	
5.1.11.8 - Initiate disposal of surplus technical data					At WSMs direction	
5.1.11.9 - Initiate disposal of surplus technical data						
5.1.11.9.1 - Provide TA with technical support resulting from review of information for those items requiring a business decision or a technical decision beyond the Contractor's contracted scope of responsibility.					As described	
5.1.11.10 - - Monitor and support applicable data for completeness					Notify WSM of discrepancies in techincal data; provide technical support in resolution of discrepancies.	
5.1.11.11 - Forward data, applicable and supported by DND or other Contractors, to TA for review and action;					As described	
5.1.11.12 - Provide technical advice pertaining to data					As described	
5.1.11.13 - Initiate engineering outputs resulting from review, including but not limited to:						
5.1.11.13.1 - Engineering changes;					At WSM's direction	
5.1.11.13.2 - Modification Instructions;					At WSM's direction	
5.1.11.13.3 - Publication amendments/updates;					At WSM's direction	
5.1.11.13..4 - Special inspections;					At WSM's direction	
5.1.11.13.5- Technical drawings;					At WSM's direction	
5.1.11.13.6- Changes to inspection packages;					At WSM's direction	
5.1.11.13.7- Flight Safety Investigations;					At WSM's direction	
5.1.11.14 - - Maintain repository for all applicable technical data;					At WSM's direction	
5.1.11.15 - Update Technical Data Package (TDP) to reflect current configuration to include all CF approved design changes					Provide technical information to WSM as requested	
5.1.11.16 - Control/coordinate flow of technical information;					At WSM's direction	
5.1.11.17 - Provide advice and co-ordination for completion and submission of forms relating to updating, change and maintenance, creation and distribution of publications and engineering drawings						
5.1.11.18 - Coordinate all processes involved in revision, change and maintenance of technical documentation;						
5.1.11.19 - Obtain, control and utilize OEM data in support of the work defined in the PWS; and						
5.1.11.20 - Review all recently published technical documentation/data, assess its impact, and initiate the appropriate action as determined by the impact.					Provide techical advise/support to WSM	
5.1.11.21 - Maintain a database of all technical information received which will show an auditable trail of receipt date, actions taken, airworthiness findings and certification and closing actions and dates for airworthiness purposes.						
5.2.11.22 - Prepare engineering drawings (Level 1, 2 or 3), whether retained by the Contractor or delivered to Canada.					At WSM's direction	
5.1.11.23 - Provide updates to Technical Data Package (TDP), as generated by reviews.						
5.1.11.24- Maintain and secure source material, its intellectual property rights and distribution rights, previous revisions and control documents in a form that may be retrieved for customer purposes.					As described	
5.1.11.25 - Provide direct support for ad-hoc technical issues raised by 1-3rd level organizations						
5.1.11.25.1 - Review/action publication changes (PCR, PDR) (overlap with Tech Data)						

NSN	Description	Rep Code	Support Equipment	RMA	CYF	Sent to 2nd Line 14/15	Sent to 2nd Line 15/16	Sent to 2nd Line 16/17	Sent to 2nd Line 17/18	Sent to 3rd Line 14/15	Sent to 3rd Line 15/16	Sent to 3rd Line 16/17	Sent to 3rd Line 17/18
6685-00-124-4336	TIRE INFLATOR ASSEM	B		WRD1	0020	7	13	26	10	9	13	5	17
4320-00-303-1088	PUMP,HYDRAULIC RAM,HAND DRIVEN	F		WRD1	0003	3	9	16	7	12	9	8	8
1730-21-906-4041	LADDER,AIRCRAFT BOARDING	F	Yes	WRD1	00RR		22		3	4	22		
1730-21-805-1524	MAINTENANCE PLATFORM,AIRCRAFT	F	Yes	WRD1	0010		7	2	1	1	7	10	7
1730-21-893-4926	JACK,HYDRAULIC,TRIPOD	F	Yes	WRD1	0004	9	3	1		8	3	1	
1730-00-912-3998	JACK,HYDRAULIC,TRIPOD	F	Yes	WRD1	0007	2	2			5	2	9	8
1650-21-921-1378	CYLINDER ASSEMBLY,ACTUATING,LINEA	B		WRD1	0006	6	10	2	1	8	10		1
4440-01-273-2564	DEHUMIDIFIER,DESICCANT,ELECTRIC	F		WRD1	00RR	12	7	4		3	7	4	2
4930-01-408-6110	DISPENSING PUMP,HAND DRIVEN	F		WRD1	0005			2		4			
1730-21-814-7801	JACK,HYDRAULIC,TRIPOD	F	Yes	WRD1	00RR	5	12		2	3	12		
1730-00-509-1388	JACK,HYDRAULIC,TRIPOD	F	Yes	WRD1	00RR		4	1		1	4	7	1
1730-21-893-4488	JACK,AIRCRAFT LANDING GEAR	F	Yes	WRD1	0003				1	2		2	4
1730-01-126-6239	TRAILER,LIFT,GROUND HANDLING	F	Yes	WRD1	0004	5	1	3		1	1	1	
4930-01-408-6115	DISPENSING PUMP,HAND DRIVEN	F		WRD1	0004	1	2	2	1	6	2	5	1
1730-21-901-5921	LADDER ASSEMBLY,MAINTENANCE PLAT	F	Yes	WRD1	0003	1		3	3			3	5
1730-00-203-4697	JACK,AIRCRAFT LANDING GEAR	F	Yes	WRD1	0003		2			1	2	2	
1730-21-895-3572	MULTI-PURPOSE DOLLY ASSEMBLY	F	Yes	WRD1	0001	2				1			
1730-01-471-6704	SLING,AIRCRAFT MAINTENANCE	F	Yes	WRD1	00RR			4	3			2	
1730-00-391-7932	JACK,HYDRAULIC,TRIPOD	F	Yes	WRD1	0004		6	2		2	6		1
1730-00-516-2017	JACK,HYDRAULIC,TRIPOD	F	Yes	WRD1	0003		1			2	1	1	
1730-21-805-1532	JACK,HYDRAULIC,TRIPOD	F	Yes	WRD1	0002	2		1		2			
1730-21-845-7290	JACK,HYDRAULIC,TRIPOD	F	Yes	WRD1	0001		2	1		1	2	2	1
1730-00-013-8813	JACK,AIRCRAFT LANDING GEAR	F	Yes	WRD1	0002	1				2			1
1730-01-353-0762	TOWBAR,AIRCRAFT	F	Yes	WRD1	0002				1	2			1
1730-00-554-5439	TOWBAR,AIRCRAFT	F	Yes	WRD1	00RR	1	5			1	5	2	
1730-01-126-6143	ADAPTER,ENGINE INST	F	Yes	WRD1	0004				1	1		2	1
1730-21-891-4553	VALVE,BLOCK ASSEMBLY AND PUMP	B	Yes	WRD1	0002	3	1		4		1	1	3
1730-01-511-0085	SLING,AIRCRAFT MAINTENANCE	F	Yes	WRD1	0002	3	1	1			1	2	1
4320-21-801-2204	PUMP,HYDRAULIC RAM,HAND DRIVEN	F		WRD1	0001	2	1		1	3	1		
1740-21-810-2154	TRAILER,GROUND HANDLING	F	Yes	WRD1	0001	2		1	1				
1730-00-294-3031	TOWBAR,AIRCRAFT	F	Yes	WRD1	0002					1			
1730-00-294-3397	TRAILER,RAIL TYPE	F	Yes	WRD1	0002							2	2
1730-21-805-2269	MAINTENANCE PLATFORM	F	Yes	WRD1	0005	1	1		1	4	1		
3950-21-800-4963	CRANE,FLOOR,PORTABLE	F	Yes	WRD1	00RR			1	1				
1730-21-805-9519	JACK,HYDRAULIC,TRIPOD	F	Yes	WRD1	0002		2				2	1	2
4320-01-301-3380	PUMP,HYDRAULIC RAM,HAND DRIVEN	F		WRD1	00RR	1	1				1		
1730-00-954-8751	TOWBAR,AIRCRAFT	F	Yes	WRD1	0001		1				1		
4910-21-860-1250	DEMOUNTER,PNEUMATIC TIRE	F		WRD1	0001								
1730-00-391-7913	JACK,AIRCRAFT LANDING GEAR	F	Yes	WRD1	0002	1	1	1			1	1	
1730-00-540-2343	JACK,AIRCRAFT LANDING GEAR	F	Yes	WRD1	00RR		1		1		1		
1730-21-891-4983	TEST FIXTURE KIT	F	Yes	WRD1	0001	2						2	
1730-21-891-4983	TEST FIXTURE KIT	F	Yes	WRD1	0001	2						2	
6105-01-325-4153	MOTOR,ALTERNATING CURRENT	B		WRD1	00RR	1			2	1			
1730-00-965-5744	JACK,AIRCRAFT LANDING GEAR	F	Yes	WRD1	00RR							1	
1730-00-967-9556	TOWBAR,AIRCRAFT	F	Yes	WRD1	0003								
1730-21-800-5846	JACK,HYDRAULIC,TRIPOD	F	Yes	WRD1	0001								
1730-21-800-5861	JACK,AIRCRAFT LANDING GEAR	F	Yes	WRD1	00RR		1				1		
1730-21-891-4544	PLUNGER,OUTER	F	Yes	WRD1	0001			3					
1730-21-896-9280	LAVATORY SERVICING UNIT	F	Yes	WRD1	0002			1					2
3950-21-800-1885	n	F	Yes	WRD1	00RR	3							
4320-01-320-4584	PUMP,CENTRIFUGAL	F		WRD1	0005		1				1		
4320-01-583-0483	PUMPING UNIT,HYDRAULIC,POWER DRI	F		WRD1	0001	1							
4320-21-800-1191	PUMPING UNIT,HYDRAULIC,POWER DRI	F		WRD1	00RR			1					
4920-00-670-1619	LIFT ASSY	F	Yes	WRD1	00RR					1			
4920-00-949-9408	LIFT ASSY	F	Yes	WRD1	0001								
4940-01-058-5267	MACHINE,CLEANING	F	Yes	WRD1	0002								
1730-00-148-6418	TOWBAR,AIRCRAFT	F	Yes	WRD1	00RR								
1730-00-697-1510	HOISTING UNIT,AIRCRAFT COMPONENT	F	Yes	WRD1	0002								
1730-00-837-2441	HOISTING UNIT,AIRCRAFT COMPONENT	B	Yes	WRD1	00RR								
1730-00-913-7292	JACK,AIRCRAFT LANDING GEAR	F	Yes	WRD1	00RR								
1730-21-860-3870	TOWBAR,AIRCRAFT	F	Yes	WRD1	0002								
1730-21-884-7057	STAND,UNIVERSAL,WHEEL BUILD-UP	B	Yes	WRD1	0001								
1730-21-889-6310	TOWBAR,AIRCRAFT	F	Yes	WRD1	0001								
1730-21-891-4541	CYLINDER	F	Yes	WRD1	0001								
2540-00-714-2500	HOOK,TOW	B		WRD1	00RR								
4320-21-871-7036	PUMPING UNIT,HYDRAULIC,POWER DRI	F		WRD1	0001								
4320-21-871-7036	PUMPING UNIT,HYDRAULIC,POWER DRI	F		WRD1	0001								
4320-21-897-7217	PUMP,ROTARY	B		WRD1	00RR								
4910-00-121-8577	BEAD BREAKER,PNEUMATIC TIRE	B		WRD1	0001								
4920-00-212-3079	LIFT ASSEMBLY	B	Yes	WRD1	0001								
4940-01-161-5903	BLAST CLEANING MACHINE	B	Yes	WRD1	0003								
6110-20-004-8921	PANEL,CONTROL,ELECTRICAL-ELECTRO	F		WRD1	00RR								
4120-01-508-1404	AIR CONDITIONER	F		WAR1	0016	5	10	11	1	6	10	11	4
6115-20-005-8285	GENERATOR SET,DIESEL ENGINE	B		WAR1	0005	2	1	1	1	5	1	4	
6115-21-910-4387	GENERATOR SET,DIESEL ENGINE,TRAIL	F		WAR1	0007		5	15		3	5	13	4
4920-21-871-6132	TEST STAND,HYDRAULIC SYSTEM COMP	F	Yes	WAR1	0006		3	1	1	6	3	4	
4930-00-888-5119	PREOILER	F		WAR1	0002	1	2	2		3	2		
6130-01-329-4433	POWER SUPPLY	F		WAR1	0005		3	1		3	3	1	1
4330-00-064-6638	FILTER,FLUID	F		WAR1	0003	8				3			

4920-21-903-1689	TEST STAND,HYDRAULIC SYSTEM COMP	F	Yes	WAR1	0001		1	1	1		1	2	1
4920-20-003-0263	TEST STAND,HYDRAULIC SYSTEM COMP	F	Yes	WAR1	0004							1	1
3040-01-202-9217	CYLINDER ASSEMBLY,ACTUATING,LINEA	B		WAR1	00RR		4	2			4		
4920-20-002-7871	FILLER AND BLEEDER,HYDRAULIC SYST	F	Yes	WAR1	0004	1		1					
4920-20-004-2471	FILLER AND BLEEDER,HYDRAULIC SYST	F	Yes	WAR1	0005	3	1	1	3	6	1		
4920-21-896-5369	TEST STAND,HYDRAULIC SYSTEM COMP	F	Yes	WAR1	0002		5	1			5		
4320-01-382-9589	PUMP,AXIAL PISTONS	B		WAR1	0004	1	1	2	1	2	1	3	3
3040-01-258-1706	CYLINDER,ACTUATING,LINEAR	F		WAR1	0002		7	5			7	1	2
4330-01-470-1855	PURIFIER,CENTRIFUGAL,OIL	F		WAR1	0002		6		1	1	6	4	
5998-21-885-5366	CIRCUIT CARD ASSEMBLY	B		WAR1	0014							1	3
4920-21-877-2109	FILTER AND BLEEDER,HYDRAULIC SYST	F	Yes	WAR1	0003	1	5				5	6	
6680-21-886-5120	FLOWMETER	B		WAR1	0001	1				1		2	
4920-21-740-0016	TEST STAND,HYDRAULIC SYSTEM COMP	F	Yes	WAR1	0001		1			2	1		
4920-21-911-9054	TEST STAND,HYDRAULIC SYSTEM COMP	B	Yes	WAR1	0002		3	1			3	1	
4930-20-004-4709	DISPENSING PUMP,AIR PRESSURE	F		WAR1	0002					1			2
6115-01-565-9053	GENERATOR SET,DIESEL ENGINE,TRAIL	B		WAR1	0006	6			2	1			4
4920-20-003-0260	TEST STAND,HYDRAULIC SYSTEM COMP	F	Yes	WAR1	0006	2	2			2	2		6
7240-01-519-2896	DISPENSE,DRINKING WATER STORAGE	F		WAR1	0006			2	1	2		3	1
4920-20-007-5790	TEST STAND,HYDRAULIC SYSTEM COMP	F	Yes	WAR1	0001		2			1	2		
6130-21-911-6066	POWER SUPPLY SUBASSEMBLY	B		WAR1	0005	3	2	1		3	2	1	
1740-00-537-1945	TRAILER,AIRCRAFT EN	F	Yes	WAR1	0002							2	
5998-21-885-5368	CIRCUIT CARD ASSEMBLY	F		WAR1	0008								1
4920-21-913-8286	TEST STAND,HYDRAULIC SYSTEM COMP	B	Yes	WAR1	0002		1				1	1	
4920-01-287-1303	TEST STAND,HYDRAULIC SYSTEM COMP	B	Yes	WAR1	0001					1		1	
1730-01-362-9168	STAIRCASE,AIRCRAFT BOARDING	F	Yes	WAR1	0002		1	1		2	1	1	2
4320-01-038-2443	PUMP,HYDRAULIC RAM,HAND DRIVEN	A		WAR1	0003				3				
4920-20-002-7786	FILLER AND BLEEDER,HYDRAULIC SYST	F	Yes	WAR1	0001	1							
4920-21-893-9368	FILTERING UNIT,LIQUID COOLANT	F	Yes	WAR1	0001		1				1		
4920-21-806-5370	TESTER,PRESSURIZED CABIN LEAKAGE	B	Yes	WAR1	0002	1	1		1		1	2	
2815-01-398-3104	POWER UNIT,DIESEL	F		WAR1	0001		1				1		
4920-21-900-4129	TEST STAND,HYDRAULIC SYSTEM COMP	B	Yes	WAR1	0002	1				1			
5998-21-885-5370	CIRCUIT CARD ASSEMBLY	F		WAR1	0002								
1730-21-886-1231	PLATFORM ASSEMBLY,MAINTENANCE	F	Yes	WAR1	0001		2	1		1	2	1	2
3655-21-898-2948	CART,NITROGEN	F		WAR1	0002	2	1				1	1	1
2330-01-430-0310	TRAILER,TANK	F		WAR1	0001	1	1			1	1		1
5998-21-885-5733	CIRCUIT CARD ASSEMBLY	F		WAR1	0001					1			1
4920-21-898-0281	TEST STAND,HYDRAULIC SYSTEM COMP	F	Yes	WAR1	0001		1	1			1		
4520-01-342-9465	HEATER,DUCT TYPE,PORTABLE	F		WAR1	0001	1			2	1			1
4930-20-007-4752	FILLING SET,OIL	F		WAR1	0006								
5985-21-812-2333	DUMMY LOAD,ELECTRICAL	B		WAR1	00RR								
5998-21-906-6272	CIRCUIT CARD ASSEMBLY	B		WAR1	0001								
6110-00-601-2985	DISTRIBUTION BOX	F		WAR1	00RR								1
2330-01-558-5335	TRAILER,TANK	F		WAR1	0004								
3040-01-528-3204	CYLINDER ASSEMBLY,ACTUATING,LINEA	F		WAR1	0001								
4310-21-803-3048	VACUUM PUMP UNIT,ROTARY	B		WAR1	00RR	1							
4320-21-892-1380	PUMP,AXIAL PISTONS	B		WAR1	0002							2	
4320-21-900-4675	PUMP,AXIAL PISTONS	F		WAR1	0001		1				1		
4320-21-921-0690	PUMP,AXIAL PISTONS	F		WAR1	0001								
4920-01-417-9081	TEST STAND,HYDRAULIC SYSTEM COMP	F	Yes	WAR1	0001								
4920-21-814-7878	TANK,AIRCRAFT ENGINE PREOILER	F	Yes	WAR1	0001							1	
4920-21-860-2446	TEST STAND,HYDRAULIC SYSTEM COMP	F	Yes	WAR1	0001		1	1			1		
4920-21-882-7961	FILLER AND BLEEDER,HYDRAULIC SYST	F	Yes	WAR1	0005							5	
4920-21-893-9097	TEST STAND,HYDRAULIC SYSTEM COMP	B	Yes	WAR1	0001					1			
4920-21-920-2725	FILTER AND BLEEDER, HYDRAULIC SYST	B	Yes	WAR1	0001								
4930-20-006-7084	1 LITRE AIRCRAFT ENGINE OIL FLUID DIS	F		WAR1	0002								
5998-21-912-2988	CIRCUIT CARD ASSEMBLY	F		WAR1	0005								
5998-21-912-6046	CIRCUIT CARD ASSEMBLY	B		WAR1	0003								
6150-00-342-3995	LOAD BANK,ELECTRICAL	F		WAR1	0001					1			
1730-21-869-1182	WASH CART	F	Yes	WAR1	0001								
2330-01-430-0315	TRAILER,TANK	F		WAR1	0001								
2805-01-097-2652	ENGINE,GASOLINE	B		WAR1	0003								
2910-01-421-1107	GOVERNOR,DIESEL ENGINE	F		WAR1	0001								
4240-00-368-6126	FILTER UNIT,GAS-PARTICULATE	B		WAR1	00RR								
4310-20-001-2741	COMPRESSOR UNIT,RECIPROCATING	B		WAR1	0020								
4310-21-869-3745	COMPRESSOR UNIT,RECIPROCATING	B		WAR1	0015								
4310-21-877-2523	COMPRESSOR UNIT,RECIPROCATING	B		WAR1	00RW								
4310-21-893-9365	VACUUM PUMP,ROTARY	B		WAR1	00RR								
4310-21-900-4454	DRAIN DEVICE,AUTOMATIC	B		WAR1	0002								
4310-21-904-1354	COMPRESSOR UNIT,RECIPROCATING	B		WAR1	0004								
4320-01-300-2732	PUMP,HYDRAULIC RAM,HAND DRIVEN	F		WAR1	00RR								
4320-21-882-7464	PUMP,AXIAL PISTONS	B		WAR1	00RR								
4320-21-921-0688	PUMP,AXIAL PISTONS	F		WAR1	0001								
4920-20-002-7725	TEST STAND,HYDRAULIC SYSTEM COMP	F	Yes	WAR1	00RR								
4920-21-804-5433	TESTER,PRESSURIZED CABIN	B	Yes	WAR1	0002								
4920-21-871-7110	RESERVOIR ASSEMBLY	F	Yes	WAR1	0001								
4920-21-879-6522	TEST STAND,PROPELLER	B	Yes	WAR1	0001								
4920-21-896-5370	TEST STAND,HYDRAULIC SYSTEM COMP	F	Yes	WAR1	0002								
4920-21-913-8287	TEST STAND,HYDRAULIC SYSTEM COMP	B	Yes	WAR1	0001								
4920-21-921-2752	TEST STAND,HYDRAULIC SYSTEM COMP	F	Yes	WAR1	0000								
4930-01-582-1090	DRAINING KIT,FUEL	F		WAR1	0004								
6105-21-892-5142	MOTOR,ALTERNATING CURRENT	F		WAR1	0001								
6110-21-879-3496	STARTER,MOTOR	B		WAR1	00RR								
6115-21-847-8395	LOAD BANK,REACTOR GROUP	B		WAR1	00RR								

6115-21-847-8396	LOAD BANK,RESISTOR GROUP	B		WAR1	00RR								
6115-21-847-8397	LOAD BANK,RESISTOR GROUP	B		WAR1	00RR								
6115-21-847-8398	LOAD BANK,REACTOR GROUP	B		WAR1	00RR								
6625-00-508-2923	TESTER ASSY,ELECTRI	B	Yes	WAR1	00RR								
6115-20-008-6995	GENERATOR SET,DIESEL ENGINE,TRAIL	F		WAF1	0012		9		2		9	14	4
4720-01-324-0233	HOSE ASSEMBLY,AIR DUCT	F		WAF1	0050	11	4	6	12		4	36	
4720-01-431-9628	HOSE ASSEMBLY,AIR DUCT	F		WAF1	0002	10	9		4		9		2
6670-01-563-4800	LOAD CELL,FORCE-WEIGHT	B		WAF1	0005	7	5			2	5		6
4720-01-437-0894	HOSE ASSEMBLY,AIR DUCT	F		WAF1	0002		12				12	3	1
4720-01-545-0232	HOSE ASSEMBLY,AIR DUCT	F		WAF1	0002	12				1			6
4140-01-105-6326	FAN,CENTRIFUGAL	B		WAF1	0005			1		2		3	6
1560-01-492-8259	VENTILATING SYSTEM,	B		WAF1	0001								
3655-01-363-8184	GENERATING AND CHARGING PLANT,OX	F		WAF1	0005		3	1		1	3		3
6110-01-141-8160	REGULATOR,VOLTAGE	B		WAF1	0003	1	2	4	4	1	2	3	2
6125-21-890-7439	MOTOR-GENERATOR	F		WAF1	0003			1	2	1		3	2
4940-12-342-1655	CLEANER,STEAM,PRESSURE JET	F	Yes	WAF1	0002	1	3			2	3	2	
4140-01-306-9138	FAN,CENTRIFUGAL	F		WAF1	0003		1		2	2	1		
5998-01-420-7471	CIRCUIT CARD ASSEMBLY	B		WAF1	0002		8		1		8		
6125-01-314-3552	MOTOR-GENERATOR	F		WAF1	0005		3	2	1	1	3	3	1
3655-01-592-3227	GENERATING AND CHARGING PLANT,OX	F		WAF1	0002			1				1	2
6115-01-286-0365	GENERATOR SET,DIESEL ENGINE,TRAIL	B		WAF1	0001		2				2		1
6110-01-100-7637	MEMORY BOARD	B		WAF1	0001	2		1		3			1
6115-01-407-2439	GENERATOR SET,DIESEL ENGINE,TRAIL	B		WAF1	0002	1	1			1	1	1	
4940-12-317-0345	CLEANER,STEAM,PRESSURE JET	F	Yes	WAF1	0001		1				1		
1560-01-492-8255	VENTILATING SYSTEM,	F		WAF1	0001			1					
4940-12-353-1895	CLEANER,STEAM,PRESSURE JET	F	Yes	WAF1	0004							1	
4940-12-311-9511	CLEANER,STEAM,PRESSURE JET	F	Yes	WAF1	0004								1
4920-00-884-3001	PLATE,BASE	F	Yes	WAF1	00RR			1		1		1	
4310-01-530-1782	FILTER ASSEMBLY,FLUID	F		WAF1	0002				3				
4940-12-334-0327	CLEANER,STEAM,PRESSURE JET	F	Yes	WAF1	0001								
1560-01-492-8256	VENTILATING SYSTEM,	F		WAF1	0001								
3655-01-329-3019	GENERATING AND CHARGING PLANT,OX	B		WAF1	0001								
3920-01-528-3389	TRUCK,DOLLY	F		WAF1	0001								
4720-01-529-1971	HOSE ASSEMBLY,AIR DUCT	F		WAF1	0002	10							
4720-01-562-4911	HOSE ASSEMBLY,AIR DUCT,AIR BREATH	B		WAF1	0001								
4920-00-884-3002	SOCKET,SLEEVE	F	Yes	WAF1	0001	1							
5120-00-337-9652	MULTIPLIER,TORQUE WRENCH	F	Yes	WAF1	00RR	2				2			
5670-01-462-8941	VENTILATOR,AIR CIRCULATING	B		WAF1	0002			3					
6130-01-470-9381	CONVERTER,FREQUENCY,ELECTRONIC	B		WAF1	0002			1					
8145-01-492-7777	SHIPPING AND STORAGE CONTAINER,M	F		WAF1	0001				2				
4720-01-431-9623	HOSE ASSEMBLY,AIR DUCT,AIR BREATH	B		WAF1	0002								
4720-01-431-9626	HOSE ASSEMBLY,AIR DUCT,AIR BREATH	B		WAF1	0002								
4920-01-528-3206	VENTILATING SYSTEM	F	Yes	WAF1	0001								
6125-01-442-5659	MOTOR-GENERATOR	B		WAF1	0001								
8145-01-492-7770	SHIPPING AND STORAGE CONTAINER,M	F		WAF1	0001								
8145-01-492-7771	SHIPPING AND STORAGE CONTAINER,M	F		WAF1	0001								
1740-01-031-5868	TRAILER,GROUND HANDLING	F	Yes										
3040-21-910-1904	CYLINDER ASSEMBLY,ACTUATING,LINEA	B				6		3	4				
3040-21-910-1905	CYLINDER ASSEMBLY,ACTUATING,LINEA	B				6		2	5				
1730-01-384-2805	TOWBAR,AIRCRAFT	F	Yes			4							
1450-01-359-5782	ADAPTER,ADJUSTABLE,TRAILER TO GUI	D											
1730-21-895-3277	CART,ELECTRICAL CABLE	F	Yes										
1730-01-330-4643	TOWBAR,AIRCRAFT	F	Yes										
1730-01-009-0446	MAINTENANCE PLATFORM,AIRCRAFT	F	Yes			2							
2910-01-643-5934	PUMP,MODIFIED HAND	F						5	3				
2330-21-801-6633	TRAILER,AMMUNITION	F				3							
1730-21-755-0039	JACK,HYDRAULIC,TRIPOD	F	Yes										
1730-21-899-7083	WASH CART	F	Yes			2							
1740-00-491-0382	DOLLY	F	Yes						4				
4730-01-288-2456	TESTER,NOZZLE ACTUA	F											
5120-01-596-2293	JACK,HYDRAULIC,HAND	F	Yes										
1730-01-617-5289	TOWBAR,AIRCRAFT	F	Yes			1		1	2				
4940-21-910-0489	PLATFORM LIFT	F	Yes						2				
1730-00-133-9417	DOLLY ASSEMBLY,AIRC	F	Yes					2					
1740-00-106-8512	TRAILER,GROUND HANDLING	F	Yes						2				
6685-21-898-1768	TESTER,PRESSURE GAGE	B				2		3	1				
6150-01-494-6299	LOAD BANK,ELECTRICAL	B				1		2					
1730-01-109-1146	JACK,AIRCRAFT LANDING GEAR	F	Yes										
1730-21-884-7872	JACK,AIRCRAFT LANDING GEAR	F	Yes					3					
1740-00-718-1579	TRAILER,GROUND HANDLING	F	Yes			1		3					
4320-00-671-3294	PUMP,HYDRAULIC RAM,HAND DRIVEN	D				2		1	5				
1730-01-013-4185	JACK,AIRCRAFT LANDING GEAR	B	Yes						1				
4320-01-201-3231	PUMP,RECIPROCATING	D				2		3	1				
1730-01-547-3069	TOWBAR,AIRCRAFT	F	Yes			2							
1740-01-103-9693	TRAILER,GROUND HANDLING	F	Yes					1	1				
3040-01-505-0574	CYLINDER ASSEMBLY,ACTUATING,LINEA	G				3			3				
1740-00-680-2910	TRAILER,GROUND HANDLING	F	Yes										
3040-01-503-8476	CYLINDER ASSEMBLY,ACTUATING,LINEA	F				1		1					
1730-00-216-8894	CYLINDER ASSEMBLY,T	F	Yes			1		1					
4320-01-201-3232	PUMP,RECIPROCATING	D				2		2	1				
4320-20-001-9906	PUMP,HYDRAULIC	F							1				
6670-01-389-6170	LOAD CELL,FORCE-WEIGHT	B											
4320-00-812-5019	PUMP,RADIAL PISTONS	G						1					

1730-01-398-7252	JACK,AIRCRAFT LANDING GEAR	F	Yes			2							
1730-00-516-7930	TRAILER,RAIL TYPE	F	Yes										
2835-21-807-0161	ENGINE,GAS TURBINE,NONAIRCRAFT	F											
1730-21-808-1998	TOWBAR,AIRCRAFT	F	Yes										
1730-00-390-5620	MAINTENANCE PLATFORM,AIRCRAFT	F	Yes			1							
1730-00-554-5436	JACK,HYDRAULIC,TRIPOD	F	Yes										
1730-01-103-9685	TOWBAR,AIRCRAFT	F	Yes										
1730-01-398-8097	WATER CART	F	Yes										
1730-01-399-1100	JACK,HYDRAULIC,TRIPOD	F	Yes										
1730-01-526-0568	TOWBAR,AIRCRAFT	F	Yes										
1730-01-552-8012	CRADLE,GROUND HANDLING EQUIPMEN	F	Yes			5							
1730-21-845-8042	STAND,BOMB	A	Yes										
1730-21-913-2828	TOWBAR,AIRCRAFT	F	Yes										
1740-01-231-4826	TRAILER,GROUND HANDLING	F	Yes										
2330-20-003-1085	TRAILER,TANK	F											
2835-21-892-4796	POWER UNIT,GAS TURBINE ENGINE	F				1							
2990-01-581-5811	POWER TAKEOFF,ENGINE	F											
4320-00-868-9812	PUMP,HYDRAULIC,HAND	G											
4320-01-262-8385	PUMP,HYDRAULIC RAM,HAND DRIVEN	G						1					
4820-00-593-3148	VALVE,ROTARY,SELECTOR	F											
4910-01-518-1465	BEAD BREAKER,PNEUMATIC TIRE	G											
4920-00-019-9262	JACK TESTER ASSY	F	Yes										
4920-00-019-9262	JACK TESTER ASSY	F	Yes										
4920-00-086-6900	STAND,MAINTENANCE,RAIL TYPE	F	Yes										
4920-00-858-0954	STAND,MAINTENANCE,AIRCRAFT ENGIN	F	Yes						2				
4920-00-870-2150	LOCK ASSY,LIFT	D	Yes										
4920-01-569-1181	JACK ACFT AXLE,AIRC	F	Yes					1					
4920-21-814-7879	TANK,AIRCRAFT ENGINE PREOILER	B	Yes										
5365-00-398-3784	RING,EXTERNALLY THREADED	F	Yes										
1730-00-390-5618	MAINTENANCE PLATFORM,AIRCRAFT	F	Yes										
1730-00-532-6704	CASTER ASSEMBLY,SHO	D	Yes										
1730-00-657-1177	TRAILER,LIFT,GROUND HANDLING	F	Yes										
1730-01-107-7952													
1730-01-237-4397	CYLINDER ASSEMBLY,J	F	Yes										
1730-01-254-3673	STAND,AIRCRAFT PROPELLER	D	Yes										
1730-01-275-4519	JACK,AIRCRAFT LANDING GEAR	G	Yes										
1730-01-311-2326	JACK,HYDRAULIC,TRIPOD	F	Yes										
1730-01-312-5428	TOWBAR,AIRCRAFT	F	Yes										
1730-01-399-1101	JACK,HYDRAULIC,TRIPOD	G	Yes										
1730-01-534-6421	TOWBAR,AIRCRAFT	F	Yes										
1730-01-553-4706	CART,SERVICE,LAVATO	F	Yes										
1730-01-576-2655													
1730-01-610-8519	TOWBAR,AIRCRAFT	F	Yes										
1730-01-612-0210													
1730-01-630-3160	TOWBAR,AIRCRAFT	A	Yes										
1730-01-654-0524	JACK,HYDRAULIC,TRIPOD	F	Yes										
1730-20-004-3692	TOWBAR,AIRCRAFT	F	Yes										
1730-21-801-7976	JACK,AIRCRAFT LANDING GEAR	F	Yes										
1730-21-805-1525													
1730-21-805-2270													
1730-21-814-3259													
1730-21-815-9000													
1730-21-881-4878	JACK,HYDRAULIC,TRIPOD	F	Yes										
1730-21-893-4468	CABLE ASSEMBLY,EMERGENCY TOWINC	F	Yes										
1730-21-898-2571	TOWBAR,LIGHTWEIGHT,AURORA	F	Yes										
1730-21-901-5580	TOWBAR,AIRCRAFT,EXTENDED	B	Yes										
1730-21-912-9459	TRAILER,LIFT,GROUND HANDLING	B	Yes										
1730-21-913-2827	TOWBAR,AIRCRAFT	F	Yes										
1740-21-846-6499	TRAILER,UTILITY	F	Yes										
1740-21-914-2249	TRAILER,GROUND HANDLING	F	Yes										
2330-01-507-3883	TRAILER,TANK	F											
2835-21-852-2161	ENGINE,GAS TURBINE,NONAIRCRAFT	F											
2835-21-896-1249	ENGINE,GAS TURBINE,NONAIRCRAFT	F											
2835-21-910-7587													
3040-01-508-1941	CYLINDER ASSEMBLY,ACTUATING,LINEA	F											
3040-01-556-9064	CYLINDER ASSEMBLY,ACTUATING,LINEA	F											
4320-00-659-8942	PUMP,HYDRAULIC RAM,HAND DRIVEN	D											
4320-00-997-7130													
4320-01-056-4793	PUMP,HYDRAULIC	G											
4320-01-245-8685	PUMPING UNIT,HYDRAULIC,POWER DRI	F											
4320-01-399-1758	PUMPING UNIT,HYDRAULIC,POWER DRI	F											
4320-21-814-3259	RAM,HYDRAULIC	B											
4320-21-814-3259	RAM,HYDRAULIC	B											
4330-01-522-2007	FILTER UNIT,FLUID,PRESSURE	F											
4510-01-385-2362	TOILET,AIRCRAFT	B											
4520-01-482-8571	HEATER,DUCT TYPE,PORTABLE	F											
4820-21-880-5752	MANIFOLD ASSEMBLY,PRESSURE REGU	B											
4910-00-293-3849	TRAILER,LIFT,WHEEL	F											
4920-00-075-0603	TESTER,NOZZLE ACTUA	B	Yes										
4920-00-306-4374	GUAGE ASSY	F	Yes										
4920-00-474-3234	TEST STAND,PROPELLE	B	Yes										
4920-00-709-1371	BASE PLATE	D	Yes										
4920-01-552-6919	TEST STAND HYDRAULI	F	Yes										

4920-20-001-5214	TESTER,AIRCRAFT JACKS	F	Yes										
4940-12-356-6100	CLEANER,STEAM,PRESSURE JET	F	Yes										
4940-21-910-5045	PLATFORM LIFT	G	Yes										
5120-00-525-8684	BASE PLATE ASSY	F	Yes										
6110-20-002-9556	PANEL,POWER DISTRIBUTION	F											
6670-01-389-6227	COMPUTER,AIRCRAFT WEIGHT-BALANC	B											
6670-01-609-3465	SCALE,WEIGHING	B											
6670-01-618-0886	LOAD CELL,FORCE-WEIGHT	B											