# APPENDIX AC Data Item Descriptions (DID) - Acquisition for the Area Detection and Identification System (ADIS)

**Requisition Number:** 

Date: 31 August, 2018

Prepared by:

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# NOTICE

This documentation has been reviewed by the technical authority and does not contain controlled goods.

# AVIS

Cette documentation a été révisée par l'autorité technique et ne contient pas de marchandises contrôlées.

Data Item Description (DID) List

The following table lists the DIDs contained in this Appendix, including their DID number as well as their associated Contract Data Requirements List (CDRL) number.

DID Number	Title	Associated CDRL	Subtitle
PM-101	Project Management Plan	PM-101	PMP
PM-102	Master Project Schedule	PM-102	MPS
PM-103	Monthly Progress Report	PM-103	
PM-104	Action Item Register	PM-104	AIR
PM-105	Meeting Documentation	PM-105	
PM-106	Significant Incident Report	PM-106	SIR
PM-107	Lexicon	PM-107	
PM-108	Request for Deviation/Request for Waiver	PM-108	RFD/RFW
PM-109	Quality Assurance Plan	PM-109	QAP
PM-110	Risk Register	PM-110	
SE-301	Not used	N/A	
SE-302	Test and Evaluation Master Plan	SE-302	TEMP
SE-303	Qualification Test Procedures	SE-303	QTP
SE-304	Qualification Test Report	SE-304	QTR
SE-305	Equipment Environmental Assessment	SE-305	EEA
SE-306	Software Version Description Document	SE-306	SVDD
SE-307	Not used	N/A	
SE-308	Engineering Change Proposal	SE-308	ECP
SE-309	Not used	N/A	
SE-310	Not used	N/A	
SE-311	Not used	N/A	
SE-312	Verification Traceability Matrix	SE-312	VTM
SE-313	Equipment Specification	SE-313	
IL-501	Integrated Logistics Support Plan	IL-501	ILSP
IL-502	Maintenance Plan	IL-502	Maint Plan
IL-503	Reliability Data	IL-503	
IL-504	Serial Number Register	IL-504	SNR
IL-505	Not used	N/A	
IL-506	Equipment Identification Plate Drawings	IL-506	ID Plate
IL-507	Not used	N/A	
IL-508	Marking Data for Storage and Shipment	IL-508	
IL-509	Packaging Data	IL-509	
IL-510	Provisioning Parts Breakdown/Recommended Spare Parts List	IL-510	PPB/RSPL
IL-511	Supplementary Provisioning Technical Documentation	IL-511	SPTD
IL-512	Not Used	N/A	

DID Number	Title	Associated CDRL	Subtitle
IL-513	Material Change Notice	IL-513	MCN
IL-514	Provisioning Drawings and Associated Parts List	IL-514	
IL-515	Operators Manual	IL-515	Op Man
IL-516	First Line Maintenance Manual	IL-516	Maint Man
IL-517	User Guide	IL-517	
IL-518	ADIS Kit List	IL-518	
IL-519	Not Used	IL-519	
IL-520	Training Needs Analysis	IL-520	TNA
IL-521	Training Plan	IL-521	ТР
IL-522	Courseware	IL-522	
IL-523	Not Used	N/A	
IL-524	Course Evaluation Report	IL-524	
IL-525	Training Management Plan	IL-525	ТМР
IL-526	Logistical Breakdown Structure	IL-526	LBS
IL-527	Not Used	N/A	
IL-528	Qualification Standards	IL-528	QS
IL-529	Safety Data Sheets	IL-529	SDS
IL-530	Laser Safety Data Sheets	IL-530	LSDS
IL-531	Configuration Status Accounting Report (CSAR)	IL-531	CSAR

# Applicable Documents

The standards, specifications and publications identified in Volume 2-Annex A-Appendix AE are applicable to the extent specified in this document.

Any documents in Volume 2-Annex A-Appendix AE not specifically identified in the text of this document are to be considered as supplemental information.

In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence.

In the event of inconsistency within the document, the Technical Authority (TA) will provide clarification.

Unless otherwise specified, the issue or amendment of a document effective for this contract is the one in effect on the RFP closing date.

# **DID FORM Definitions**

The following section defines the various blocks of information found on the Data Item Description (DID) forms:

# **BLOCK 1 – TITLE**

The title of the data item for the DID.

#### **BLOCK 2 - IDENTIFICATION NUMBER**

The DID number, consisting of a sequential three-digit number and prefixed with an abbreviation code, to uniquely identify the DID.

#### **BLOCK 3 - DESCRIPTION**

Provides a general description of the data content requirements.

#### **BLOCK 4 - APPROVAL DATE**

Indicates the date of the originator's approval of the DID.

# **BLOCK 5 - OFFICE OF PRIMARY INTEREST (OPI)**

The office of primary interest for the review, acceptance and/or approval of the data item.

#### **BLOCK 6 - GIDEP APPLICABLE**

An "X" indicates that the data is to be submitted by a Government organization or the Contractor to the Government/Industry Data Exchange Program (GIDEP). Otherwise the block is left blank.

#### **BLOCK 7 - APPLICATION / INTERRELATIONSHIP**

Provides the application details and interrelationship of the data item to other DIDs or documents.

#### **BLOCK 8 - ORIGINATOR**

Indicates the originator's office responsible for the DID.

#### **BLOCK 9 - APPLICABLE FORMS**

Indicates any form associated with the DID.

#### **BLOCK 10 - PREPARATION INSTRUCTIONS**

Provides the preparation instructions, including format and content requirements for the data.

		DATA ITEM DESCRIPT	ION	DND Form 1409
1. TITLE				2. IDENTIFICATION NUMBER
	Project Manage	ement Plan (PMP)		PM-101
3. DESCRIF	PTION			
The PM activitie	P describes the Contrac s necessary to meet all	tor's plan for integrating pro contractual requirements.	ocesses ar	nd organization to carry out the
4. APPROV	AL DATE	5. OFFICE OF PRIMARY IN	TEREST	6. GIDEP APPLICABLE
		DGLEPM / DCSEM 12-5	5 (TA)	
7. APPLICA	TION / INTERRELATION	SHIP		
CDRL PM-2	101			
8. ORIGINA	ATOR		9. APPLIC	ABLE FORMS
10. PREPA	-5 RATION INSTRUCTIONS			
10.1 <u>FC</u>	RMAT			
10.1.1 Th	e PMP should be in the	Contractor's format.		
10.1.2 It s	should be concise, simpl	le and direct.		
10.1.3 Th	e PMP must be prepare	d and submitted in electror	nic format	using Microsoft Word.
10.2 <u>CC</u>	<u>DNTENT</u>			
10.2.1 Th of co	e PMP should describe the project activities to deli ntract data requirement	the Contractor's plan for or ver compliant systems, tech ts within schedule, resource	ganizing, s nnical data e and budg	taffing, controlling and directing all a, integrated logistics support, and getary constraints.
10.2.2 Th	e following items should	d be addressed:		
10.2.2.1	Overview:			
a. b. c. d. e.	Purpose, Background, Assumptions, Constrai Project Deliverables; Organization Summary Schedule Summary.	Scope and Objectives; ints and Risks; y; and		
10.2.2.2	Organization:			
a. b.	Roles and Responsibili Escalating Lines of Cor	ties; and nmunications.		
10.2.2.3	Management Process	es:		
a. b. c. d. e. f. g.	Project Management / Sub-Contractor Manag Schedule Control; Resource Allocation; Security Management Budget Control; Quality Assurance:	Approach and Procedures; gement;		

- h. Performance Monitoring;
- i. Reporting;
- j. Communications;
- k. Problem Resolution;
- I. Project Work Tasks/Elements Closing;
- m. Process Improvement;
- n. Risk Identification and Management;
- o. Environmental, Health and Safety Issues Management;
- p. Information Management (IM);
- q. Change Control Processes;
- r. Configuration management (CM) program;
- s. Production Management, Procurement and In-service Support; and
- t. Controls of Government Furnished Equipment (GFEs);
- 10.2.2.4 The PMP should include disaster recovery for all project data.

DATA ITEM DESCRIPTION DND Form					DND Form 1409
1. TITLE					2. IDENTIFICATION NUMBER
	Master	Project Schedu	le (MPS)		PM-102
3. DESC	CRIPTION				
The l activ perfo fram the 0	The MPS provides the DND Technical Authority (TA) with visibility of the Contractor's planned activities and accomplished activities to date, at a level of detail that is indicative of overall performance. The MPS is used to monitor schedule performance. It constitutes the principal framework for the planning, control of scheduled work and formal reporting of schedule status for the Contract				
4. APPI	ROVAL DATE	5. OFFICE OF P	RIMARY INTEREST	6.	GIDEP APPLICABLE
		DGLEPM / DO	CSEM 12-5 (TA)		
7. APPI	ICATION / INTERR	ELATIONSHIP			
CDR	L PM-102				
8. ORIC	SINATOR		9. APPLICABLE FORM	٨S	
DCSEM	12-5DCSEM 12-5				
10.	PREPARATION INS	STRUCTIONS			
10.1	<u>FORMAT</u>				
10.1.1	The MPS should b	e prepared and	submitted using Mici	rosof	t Project.
10.1.2	The MPS should b	e version contro	olled.		
10.2	<u>CONTENT</u>				
10.2.1	The MPS should in	nclude all contra	acted activities, delive	rable	es and milestones.
10.2.2	The MPS should c activities which o	letail the sequer ccur for the obje	ncing, activity duratio actives and requireme	n, mi ents d	ilestones and all work breakdown of the contract to be achieved.
10.2.3	The MPS should in and colours utilize	nclude a detaile ed.	d legend depicting the	e me	aning of all symbols, abbreviations
10.2.4	The MPS should in activity duration,	nclude a listing o activity depende	of constraints and ass encies and associated	ump netv	tions used in order to develop the work logic.
10.2.5	10.2.5 The MPS should be prepared in such a way as to allow for easy extraction, either by a one-stage filter of sub schedules such as System Engineering, ILS, and Verification or by the use of Master and Subproject files. When Master and Subproject files are used, schedule information should not be duplicated between the Master and Subproject.				
10.2.6	2.6 The MPS should show a time-phased sequence of activities and events, and their relationship to the Work Breakdown Activities, to include as a minimum:				
	<ul> <li>a. The sequence, duration and completion dates of activities and deliverable items;</li> <li>b. Critical Path(s);</li> <li>c. Program tasks down to the work package level;</li> <li>d. Associated project milestones (both contractual and otherwise);</li> <li>e. Delivery of associated documentation for review, approval and final delivery; and</li> <li>f. Projected dates for any major project accomplishments not already covered as milestones.</li> </ul>				

- 10.2.7 The MPS should also include the associated network diagram (activity-on-node) showing network logic, mandatory, discretionary and external activity dependencies.
- 10.2.8 The MPS updates should:
  - a. Clearly indicate the "as of date" both in written form and graphically on any charts (Gantt etc.);
  - b. Clearly indicate progress in relation to the baseline schedule. Progress should show actual start and finish as well as percentage complete for activities in process; and
  - c. Clearly identify changes to the baseline activity (also applicable to new and deleted activities).

		DND Form 1409		
1. TITLE				2. IDENTIFICATION NUMBER
	Monthly	Progress Report		PM-103
3. DESC	RIPTION			
To d	escribe the progress m	ade by the Contractor in me	eeting pro	ject schedules and milestones.
4. APPR	ROVAL DATE	5. OFFICE OF PRIMARY INT	EREST	6. GIDEP APPLICABLE
		DGLEPM / DCSEM 12-5	5 (TA)	
7.APPLI	CATION / INTERRELAT	ONSHIP		
CDRL	PM-103			
8. ORIG	INATOR	9. APPLICA	BLE FORM	٨S
DCSEM	12-5			
10. PRI	EPARATION INSTRUCTI	ONS		
10.1	FORMAT			
10.1.1	The Monthly Progress	reports must be prepared i	n the Con	tractor's format.
10.1.2	The Monthly Progress Word to allow DND to	Reports must be prepared review, edit, and manipula	and subm te.	itted in electronic format using Microsoft
10.1.3	The Monthly Progress	Reports must be unclassifie	ed.	
10.1.4	The Progress Report s	hould be concise, simple an	d direct.	
10.2	<u>CONTENT</u>			
10.2.1	In order to minimize t reports must be on ar schedules that have o	he effort required to genera exception basis, and must ccurred since the last Mont	ate these r include on hly Progre	eports, information contained in the aly variations from Project work tasks or ss Report.
10.2.2	A full report of the ite measures, must be pr	ms in the Monthly Progress ovided at the next schedule	Reports, v d Project I	with project impacts, risks and mitigation Review Meeting.
10.2.2.2	1 The report must the reports are:	focus on issues and concern	s in the ar	eas listed below. Areas to be covered in
10.2.2.2	1.1 Project Mana reflecting:	gement. This section must o	cover as a	minimum, when relevant, summaries
	<ul> <li>a. Contracting invoid</li> <li>b. Payment status;</li> <li>c. Contract Change I</li> <li>d. Delivery Schedule</li> <li>e. MPS;</li> <li>f. CDRL/DIDs; and</li> <li>g. GFE.</li> </ul>	roposals; ;		
10.2.2.2	1.2 System Engine reflecting:	eering. This section must co	ver as a m	inimum, when relevant, summaries

- b. Engineering Change Proposals;
- c. Deviations and Waivers
- d. Production;
- e. Quality Assurance; and
- f. Testing.
- 10.2.2.2 Integrated Logistics Support. This section must cover as a minimum, when relevant, summaries reflecting:
  - a. Maintenance Planning;
  - b. Logistics Engineering;
  - c. Supply Support;
  - d. Repair & Overhaul;
  - e. Special PHST;
  - f. Technical Publications;
  - g. Training; and
  - h. Subcontractor Issues.
- 10.2.3 The subject headings must remain relevant from the first instance that they have been reported on. They must be used in all future reports with the term "No change" inserted if no information is to be provided for a particular report.

	DATA IT	EM DE	SCRIPTION		DND Form 1409		
1. TITLI	E			2.	IDENTIFICATION NUMBER		
	Action Item Regist	er (AIR	)		PM-104		
3. DESO	CRIPTION/PURPOSE						
The All approp arising	The AIR consists of itemized, dated and up-to-date records of all Contractor and DND issue items with the appropriate action/decisions detailed. The AIR will be a central repository to track all contractual issues arising from the work.						
	ROVAL DATE		FICE OF PRIMARY	anu			
4. AFT		INTER	REST				
		DGLE	PM / DCSFM 12-5 (TA)				
7. APPI	LICATION/INTERRELATIONSHIP	DOLL					
CDRL P	M-104						
8. ORIC	GINATOR		9. APPLICABLE FORM	IS			
DCSEN	12-5						
10. PRI	PARATION INSTRUCTIONS						
10.1	FORMAT						
10.1.1	The AIR must be prepared and to review, edit, sort and manip	submit ulate tl	ted in electronic forma ne data.	at us	sing Microsoft Excel to allow DND		
10.1.2	The AIR must be version contro	olled.					
10.2	<u>CONTENT</u>						
10.2.1	The AIR must contain the itemi PWGSC and DND action items,	zed, da and ind	ited and up-to-date rec cludes, but is not limite	cord d to	ls of all approved Contractor, o, the following data:		
	<ul> <li>a. Action item ID and Title;</li> <li>b. Description;</li> <li>c. Traceability to primary document, meeting minutes, report or activity;</li> <li>d. Date opened;</li> <li>e. Action addressee(s);</li> <li>f. Status;</li> <li>g. Date required to be closed;</li> <li>h. Date closed; and</li> <li>i. Resolution.</li> </ul>						
10.2.2	The AIR must list the action iter	ms sort	ed in the following ord	ler:			
	<ul> <li>a. Project Management;</li> <li>b. Systems Engineering;</li> <li>c. Configuration Management;</li> <li>d. Integrated Logistics Support, including in-service support;</li> <li>e. Training;</li> <li>f. Quality Assurance;</li> </ul>						
	g. Financial Issues;						

- h. Environmental, Health and Safety Issues; and
- i. Other issues

DATA ITEM DESCRIPTION DND Form 1409 1. TITLE 2. IDENTIFICATION NUMBER **Meeting Documentation PM-105** 3. DESCRIPTION/PURPOSE Meeting Agendas provide an outline of the purpose, objectives and areas to be formally discussed at meetings. Minutes are used to document the discussions held at meetings between the Government and the Contractor, with particular emphasis on decisions and action items. Supporting documentation is provided with meeting agenda to facilitate discussion at meetings. 4. APPROVAL DATE 5. OFFICE OF PRIMARY INTEREST 6. GIDEP APPLICABLE DGLEPM / DCSEM 12-5 (TA) 7. APPLICATION/INTERRELATIONSHIP CDRL PM-105 8. ORIGINATOR 9. APPLICABLE FORMS **DCSEM 12-5 10. PREPARATION INSTRUCTIONS** 10.1 FORMAT 10.1.1 The Meeting Agendas, Minutes and Supporting Documentation must be in the Contractor's format. 10.1.2 The meeting documentation must be prepared and submitted in electronic format using Microsoft Office to allow DND to review, edit, and manipulate. 10.1.3 The meeting documentation must be unclassified. 10.1.4 Minutes must be distributed as PDF once approved by both Contractor and government representatives. 10.2 CONTENT 10.2.1 The agenda must include as a minimum: a. Review of last meeting minutes (DID PM-105); b. Review of project risks (DID PM-110); c. Review of Project Schedule (DID PM-102); d. Review of actions (DID PM-104); and e. Business items as needed. 10.2.2 The Meeting Minutes must include the following information: a. A copy of the agenda; b. A list of all attendees with their title and contact number; c. A record of discussion of all items tabled and action taken; d. Specific identification of action items arising from discussions, including the name and appointment of each person required to take action on outstanding items and a scheduled time for response; e. The proposed date, time and location of any follow-up meeting; and f. Signature blocks for both Contractor and Government responsible representatives.

10.2.3 Copies of all data and information tabled at the meeting must be appended to the minutes.

10.2.4 The minutes are a record only and do not convey any executive authority. While they must be identified, action items must not be considered formally assigned or accepted because of approval of the minutes. Action items must be assigned and accepted through separate correspondence between the involved parties and with the approval of Contracting Authority (CA) and TA. The working language must be Canadian English.

			D/	ATA ITE	M DESCRIPTIC	DN	
1. TITL	1. TITLE			2. IDENTIFICATION NUMBER			
Sign	ifica	nt Incident Re	port (SIR)				PM - 106
3. DES	CRIP	TION				•	
The Sig	gnifio	cant Incident R	eport is the med	hanism	by which the	Contra	actor must immediately notify the
ADIS P	roje	ct Office of an o	event that may h	have a s	erious impact	on the	e project.
4. APP	ROV	AL DATE	5. OFFICE INTEREST	E OF PR	IMARY	6.	GIDEP APPLICABLE
			DGLEPM / DO	CSEM 1	2-5		
7. APP		TION / INTERR	FLATIONSHIP				
CDR	L 10	6					
8. ORI	GINA	TOR		9.	APPLICABLE	FORM	15
DGL	.EPIV	I / DCSEM 12-5	j.				
10.	Ρ	REPARATION IN	ISTRUCTIONS				
10.1	FO	RMAT					
10.1.1	Sig Mi	nificant Incider crosoft Office t	nt Reports (SIR) to allow DND to	must be review,	e prepared and edit, and mar	d subn ipulat	nitted in electronic format using e.
10.2	<u>CO</u>	NTENT					
10.2.1	SIR	must contain	the following mi	inimum	information:		
	а	Originator da	ate and identific:	ation n	ımher		
	b.	Essence of sit	uation that pror	npts th	e report;		
	c.	Identification	of significant pr	oblems	(e.g. Engineer	ring pr	oblems, logistical problems, etc.);
	d.	Impacts on Pr	roject Master Sc	hedule	(PMS);		
	e.	Impacts on of	ther items, comp	oonents	or aspects of	the Co	ontract (e.g. deliverables, risk,
	requirements, materials, etc.);						
	1.	loss or damag	to DND assets	yai uizei			personner of could have caused
	a Accidents involving Government Furnished Fauinment.						
	h.	Actions taken	to date;			-7	
	i.	Recommenda	ations; and				
	j.	Signature of Contractor's Project Manager.					

C	DATA ITEM DESCRIPTION DND Form 1409					
1. TITLE			2. IDENTIFICATION NUMBER			
	Lexicon		PM-107			
3. DESCRIPTION						
The Lexicon defines the ter Canadian French.	The Lexicon defines the terminology used to describe the system in both Canadian English and in Canadian French.					
4. APPROVAL DATE	5. OFFICE OF P	PRIMARY INTEREST	6. GIDEP APPLICABLE			
	DGLEPM /	DCSEM 12-5 (TA)				
7. APPLICATION / INTERREI CDRL PM-107	ATIONSHIP					
8. ORIGINATOR		9. APPLICABLE FORM	ЛS			
DCSEM 12-5						
10. PREPARATION INSTRUC	TIONS					
10.1 <u>FORMAT</u>						
10.1.1 The Lexicon must b DND to review, edi	e prepared and s t, and manipulat	submitted in electron e.	ic format using Microsoft Office to allow			
10.1.2 The Lexicon must b	e version contro	lled.				
10.2 <u>CONTENT</u>						
10.2.1 The Lexicon must c and corresponding	2.1 The Lexicon must define the terminology used to describe the system in both Canadian English and corresponding Canadian French.					
10.2.2 The DND approved deliverables.	Lexicon must be	e the authority for all t	erminologies used for all project			

DATA ITEM DESCRIPTION			DND Form 1409		
1. TITLE			2. IDENTIFICATION NUMBER		
Request for Deviation	RFD)/Request fo	or Waiver (RFW)	PM-108		
3. DESCRIPTION			L		
A Request for Deviation configuration documents time. A Request for Dev readiness, logistics supp	A Request for Deviation describes a proposed (prior to manufacture) temporary departure from configuration documentation, or drawings, for a specific number of units or for a specified period of time. A Request for Deviation enables the TA to determine the impact on performance, operational readiness, logistics support or other affected areas.				
A Request for Waiver is used to obtain authorization to deliver non-conforming material which does not meet the prescribed configuration documentation but is suitable for use "as is" or after repair. Use of a Request for Waiver is only to be considered in exceptional circumstances once all other options have been exhausted.					
A Request for Waiver en to contractual requireme	ables the TA to e ents.	valuate and authorize	e acceptance of an item not conforming		
4. APPROVAL DATE	5. OFFICE OF P	RIMARY INTEREST	6. GIDEP APPLICABLE		
	DGLEPM /	DCSEM 12-5 (TA)			
7. APPLICATION / INTERREL	ATIONSHIP				
CDRL PM-108		1			
8. ORIGINATOR		9. APPLICABLE FORM	.MS		
DCSEM 12-5		DND 675 Request to	r Waiver Or Deviation		
10. PREPARATION INSTRUC	TIONS				
10.1 <u>FORMAT</u>					
10.1.1 The Request for De	viation and Requ	uest for Waiver must ເ	use form DND 675.		
10.1.2 Where there is insudetailing the signific	fficient space on cance must be al	) the form to provide ( ttached.	details of the impact, separate sheets		
10.1.3 The Request for De safety and health h	.0.1.3 The Request for Deviation / Request for Waiver must address any potential impact on system safety and health hazards.				
10.1.4 The Request for De and / or unit price.	viation / Reques	t for Waiver may resu	It in a change to the payment schedule		

DATA ITEM DESCRIPTION							DND Form 1409	
1.	TITLE				2	2.	IDENTIFICATIO	N NUMBER
	Quality A	ssurance Plan (0	QAP)				PM-10	09
3. DESC	CRIPTION							
The Q provis	The QAP describes the methodology used by the Contractor to implement his Quality System under the provisions of CAN/CSA-ISO 9001-16 - Quality Management Systems – Requirements							
4. APPF	ROVAL DATE	5. OFFICE OF PF	RIMARY	INTEREST	e	5. GI	DEP APPLICABLE	
		DGLEPM /	DCSEM	12-5 (TA)				
7. APPL	ICATION / INTERRE	LATIONSHIP						
CDRL I	PM-109							
8.	ORIGINATOR		9.	APPLICABL	E FO	ORM	IS	
DCSEM	12-5							
10.	PREPARATION INS	TRUCTIONS						
10.1	<u>FORMAT</u>							
10.1.1	10.1.1 The QAP must be prepared and submitted using Microsoft Word to allow DND to review, edit, and manipulate.							
10.2	2 <u>CONTENTS</u>							
10.2.1	.2.1 The QAP must be prepared in accordance with CAN/CSA-ISO 10005-05 (R2015) – Quality Management Systems – Guidelines for Quality Plans.							

	DA	TA ITEM DESCRIPTION		DND Form 1409		
1. TI	TLE			2. IDENTIFICATION NUMBER		
	Ris	k Register		PM-110		
3. DESC	CRIPTION					
The Ris	sk Register documents	s risk identification, risk mit	igation pla	nning, risk management plan		
implen	nentation and risk trac	cking. The data from the ris	k register ı	must be comprehensive to enable		
manag	ement to make decisi	ons on project outcome.				
A narra	ative briefly describing	g the risk, title, type (Scope,	Schedule,	Cost), root cause, risk response and		
planne	d mitigation strategie	s, timeframe in which risk e	expected to	o occur, and critical dates (risk		
	ION MILESTONES).		TEDECT			
4. AFF1	NOVAL DATE		T = (T A)	0. GIDEF AFFEICADEL		
7 ΑΡΡΙ	ICATION / INTERRELA		5 (TA)			
	112-5		<b>J.</b> AITEC			
10. PR	EPARATION INSTRUCT	TIONS				
10.1	FORMAT					
10 1 1	The Rick Register mu	ist ha in the Contractor's fo	rmat Tha	format of the first submission will be		
10.1.1	subject to approval l	by DND, and once approved	l, must bed	come the standard.		
10.1.2	The Risk Register mu to allow DND to revi	ist be prepared and submit ew, edit, and manipulate.	ted in elec	tronic format using Microsoft Office		
10.1.3	The Risk Register mu	ist be unclassified.				
10.1.4	The Risk Register sho	ould be concise, simple and	direct.			
10.2	<u>CONTENT</u>					
10.2.1	10.2.1 The Risk Register must capture and rank the risks in order of severity and must include:					
<ul> <li>a. Name and Description of the risk including Risk Statement and cause and effect;</li> <li>b. Impact, likelihood and severity;</li> <li>c. Timeframe in which the risk is expected to occur;</li> <li>d. Efforts made in assessing the consequence of the identified risk area of scope, schedule, and cost on the program;</li> <li>e. Risk response and mitigation strategies including contingency measures with regards to the Risk Area (Scope, Cost, Schedule), if the risks were to occur; and</li> <li>f. Residual risk severity assessment</li> </ul>						

		DATA ITEM	DESCRIPTION		DND Form 1409
1. TITLE					IDENTIFICATION NUMBER
	Test and Eval	uation Master P	lan (TEMP)		SE-302
3. DES	CRIPTION				
The	TEMP describes in	detail the Test P	rogram and the Prod	uct Acce	ptance.
4.	APPROVAL	5. OFFICE OF P	RIMARY INTEREST	6.	GIDEP APPLICABLE
DATE		DGLEPM /	DCSEM 12-5 (TA)		
7.	APPLICATION / IN	ITERRELATIONS	HP		
7.1	CDRL SE-302				
7.2	This Data Item link	s to the Contrac	tor's Project Manager	nent Pla	n and Master Project Schedule.
(DID	PM-101 and DID P	PM-102)			
7.3	This Data Item map	os all of the Qual	ification Testing to th	e VTM.	
8.			9. APPLICABLE	FORMS	
10	ΡΕΕΡΔΕΔΤΙΟΝ ΙΝ	STRUCTIONS			
10.1					
10.1					
10.1.1	The TEMP must b	e in the Contrac	tor's format.		
10.1.2	The TEMP must b	e unclassified.			
10.1.3	The TEMP must b DND to review, ed	e prepared and dit, and manipul	submitted in electron ate.	ic forma	at using Microsoft Word to allow
10.2	<u>CONTENT</u>				
10.2.1	The TEMP must b	e based on requ	irements found in the	e SysRS,	Appendix AA to Annex A.
10.2.2	The TEMP must d demonstrate con	lescribe how eac formance and m	h requirement therei ust include the location	n will be on and t	e satisfied in order to ime where testing will occur.
10.2.3	.3 The TEMP must include the resources, processes and policies necessary to ensure verification is properly controlled and documented for the duration of the contract.				
10.2.4	.4 The TEMP must address and describe the overall test philosophy, methodology, processes and approach for test and evaluation of ADIS. The TEMP must describe:				
	<ul> <li>a. Level of test (system, subsystem and component);</li> <li>b. Verification methods (test, demonstration, analysis, certificate of conformance);</li> <li>c. In-house and external testing; and</li> <li>d. Traceability of test cases to SysRS requirements.</li> </ul>				
10.2.5	The Contractor m the SOW. Such re project efficiency	ay recommend ecommendation or reduce ADIS	changes to the testing s must be fully substa testing costs.	g activiti ntiated	es and sequences described in and made in order to improve

	DATA ITEM DESCRIPTION DND Form 14				DND Form 1409		
1.	TITLE			2.	IDENTIFICATION NUMBER		
	Qualificatio	Qualification Test Procedures (QTP) SE-303					
3.	DESCRIPTION						
The	Qualification Test F	Procedures (QTP) p	provide detailed inst	truct	ions to conduct Inspections,		
Dem	ionstrations, Analy	ses and Tests on th	ne equipment under	r tes	t.		
4. DATE	APPROVAL	5. OFFICE OF PRI			6. GIDEP APPLICABLE		
DATE		DGLEPM /	DGLEPM / DCSEM 12-5 (TA)				
7.	APPLICATION / IN	TERRELATIONSHIP	)				
7.1	CDRL SE-302, CDR	RL SE-303					
7.2	This DID applies to	o all QTPs.					
8.	ORIGINATOR	9	. APPLICABLE	FOR	MS		
DCSEN	1 12-5						
10.	PREPARATION INS	STRUCTIONS					
10.1	FORMAT						
10.1.1	The QTP must be	submitted in Micro	osoft Word.				
10.2	<u>CONTENT</u>						
10.2.1	Introduction. The	following must be	addressed in the ir	ntroc	luction:		
	<ul> <li>a. Scope and Purpose of the document;</li> <li>b. System, subsystem, or equipment to be tested. The following identification must be provided. <ol> <li>Test item name;</li> <li>Model or part number;</li> <li>Type of test item; and</li> </ol> </li> </ul>						
10.2.2	Referenced Docur in the test proced	<u>ments</u> . A list by do lure document.	ocument number, vo	ersio	on and title of those documents cited		
10.2.3	Test Requirement	<u>ts</u> . The following m	nust be included:				
	<ul> <li>a. Required test</li> <li>b. A list of requi</li> <li>i. Test e</li> <li>etc.);</li> <li>ii. Manu</li> <li>iii. Accur</li> <li>c. Measurement</li> <li>d. Test facilities</li> <li>e. Failure criterio</li> </ul>	s and parameters red test equipmen equipment name ( facturer/Model no racy and calibration t tolerances; to be used; and a and mitigation, in	to be measured; it: eg. environmental c umber; and n requirements and ncluding for over-te	cham I date est ar	iber, multimeter, breakout box, es. nd under-test conditions.		
10.2.4	<u>Test Procedures.</u> test procedure:	The following, if ap	oplicable to the indi	vidu	al test, must be included for each		

- a. Name of test;
- b. Purpose of test;
- c. Verification type (Test, Demonstration, Inspection, Analysis, Certificate of Conformance)
- d. Traceability to specification requirements;
- e. System configuration, test set-up diagrams including test equipment interconnections;
- f. Applicable standards and procedures (eg. MIL-STD-810G, Method 501.7, Procedure I);
- g. Test conditions to be imposed;
- h. Performance parameters to be measured;
- i. Pass/Fail criteria;
- j. Detailed step-by-step operations to obtain the required test data; and
- k. Caution and safety warnings as appropriate.
- 10.2.5 <u>Test Data Sheets</u>. Data sheets must be included with the procedure, or be separately attached to the end of all procedures. They must provide:
  - a. Test name and date of test;
  - b. Identification of item tested, including model and serial numbers;
  - c. Pre-conditioning of the test item;
  - d. Recording of test measurements, including date, time and applicable procedure step;
  - e. Identification of test Pass/Fail;
  - f. Signatures of test conductor and quality assurance inspector; and
  - g. Sufficient space reserved to allow for comments, observations or deviations from the test procedure.

		DATA ITEM DESCRIPTION		DND Form 1409			
1.	TITLE 2. IDENTIFICATION NUMBER						
	Qualifica	tion Test Report (QTR)		SE-304			
3.	DESCRIPTION						
The tests	The Qualification Test Report (QTR) documents the results, recommendations and action items of the tests.						
4.	APPROVAL	5. OFFICE OF PRIMARY INTEREST		6. GIDEP APPLICABLE			
DATE		DGLEPM / DCSEM 12-5 (TA)					
7. APPI	LICATION / INTERR	ELATIONSHIP					
7.1	CDRL SE-303, CDF	RL SE-304					
7.2	This DID applies t	o all QTRs.					
8.	ORIGINATOR	9. APPLICABLE	FOR	MS			
DCSEN	1 12-5						
10.	PREPARATION IN	STRUCTIONS					
10.1	<u>FORMAT</u>						
10.1.1	The QTR must be	submitted in Microsoft Word.					
10.2	<u>CONTENT</u>						
10.2.1	Executive Summa	iry					
10.2.2	2.2 <u>Introduction</u> . The Introduction must include the scope, the purpose of the document, and a summary table of the tests performed, date and pass/fail results. The test report must indicate clearly the security classification of the document.						
10.2.3	<u>Referenced Docu</u> cited in the test re	<u>ments</u> . A list by document number, eport.	versi	on and title of those documents			
10.2.4	4 <u>Detailed observations and test results</u> . For each test, the detailed test results must contain the following:						
	<ul> <li>a. Test name;</li> <li>b. ADIS configur</li> <li>c. Test set-up as must be prov <ul> <li>i. Test i</li> <li>ii. Mode</li> <li>iii. Type</li> </ul> </li> <li>d. Traceability to e. A clear and coardinate of the provision of the provision</li></ul>	ration tested; s well as system, subsystem, or equip ided. tem name; el or part number; and of test item; o the test procedure document; oncise statement stating whether the ation of test; as from the test procedure;	test	t tested. The following identification passed or failed.			
	<ul> <li>Detailed discursion of results of re-t</li> <li>All analyses, of facilities;</li> </ul>	cest; charts, graphs, instrument printouts,	ng ta copie	es of test reports from external test			

- j. Test/Measurement Equipment Calibration Status;
- k. Post test analysis including failure analysis, if applicable;
- I. All test data sheets, complete with the test conductor's and quality assurance inspector's signatures; and
- m. Conclusions and Recommendations.

DATA ITEM DESCRIPTION						
1. TIT	LE			2. IDENTIFICATION NUMBER		
E	quipment Envir	onmental Assessn	nent (EEA)	SE-305		
3. DESCRIPTION The Equipment Environmental Assessment (EEA) identifies and documents potential environmental impacts of the equipment over various life-cycle phases (test and evaluation following production, operation and maintenance, and demilitarization and disposal) and the associated mitigation measures required to reduce or eliminate them.						
4. AP	APPROVAL DATE 5. OFFICE OF PRIMARY INTEREST DGLEPM / DCSEM 12-5 (TA)			6. GIDEP APPLICABLE		
7. AP	PLICATION/INTE	RRELATIONSHIP				
7.1.	This DID conta	ains content and p	reparation instruc	tions for the EEA as required by the SOW.		
8. OR DCSEM	IGINATOR 12-5		9. APPLICABLE	FORMS		
10. PR	EPARATION INS	TRUCTIONS				
10.1	FORMAT					
10.1.1	The EEA must DND to review	be prepared and s , edit, and manipu	ubmitted in electr late.	onic format using Microsoft Word to allow		
10.2	<u>CONTENT</u>					
10.2.1	10.2.1 The EEA must include Safety Data Sheets (SDSs) that are less than three years old for all hazardous material (HAZMAT). SDSs should disclose the chemical ingredient information along with its Chemical Abstract Service Number (CAS number) and % composition. The Contractor may provide confidential information in a separate document. Note: Proprietary information will be treated with confidentiality.					
10.2.2	The EEA must	contain the follow	ing sections and in	nformation, as a minimum:		
1	Title Page					
	<ul> <li>a. Equipment</li> <li>b. Originating</li> <li>c. Director Gong</li> <li>Number:</li> <li>d. Assessment</li> </ul>	t Name and NATO g Directorate: eneral Land Equip ht Contact: Name,	Stock Number (N ment Program Ma title and company	SN), if available magement (DGLEPM) EEA Registration name of the author of the EEA		
2	Executive Sum	mary				
	a. Provide a k measures maintenan	orief summary of p for each life-cycle ice, and demilitariz	ootential environn (test and evaluation zation and dispose	nental impacts and recommended mitigation on following production, operation and al).		
3	Equipment D	escription				
	a. Equipment	t description: Prov	ide an overview o	f the equipment and identify each major sub-		

system as per the Logistical Breakdown Structure (LBS).

- b. For each major sub-system, identify the following: Ionizing radiation sources (radioisotopes and x-ray), e.g. Uranium, Radon, i. plutonium and tritium etc. ii. Non-ionizing radiation sources (radiofrequency and lasers). iii. Identify hazardous substances that are incorporated into the equipment design. Provide additional information in tabular form in Attachment 1. iv. Identify hazardous products that are: v. Used during manufacturing (i.e. paints/surface treatments, adhesives, lubricants, consumables such as batteries, etc.). vi. Recommended by the Contractor during the in-service life-cycle phase (i.e. lubricants, cleaners, decontaminants, etc.) or included in the Technical Documentation. vii. Provide information in tabular form in Attachment 2. viii. Provide Safety Data Sheets (SDS) in Attachment 3 for all hazardous products. 4 **Environmental Assessment** a. For each lifecycle phase (test and evaluation following production, operation and maintenance, and demilitarization and disposal) discuss the following: Lifecycle activities: Describe anticipated activities (including operator and i. maintenance tasks that are detailed in Contractor provided Technical Documentation) and identify if any of these activities have the potential to: release a polluting substance to air, water or land (e.g. exhaust emissions, hazardous waste, spills, etc.); impact human health; noise or vibration; and/or alter landscape features. Note: The scope of the EEA excludes activities related to the use of munitions. ii. Environmental impacts: Describe the potential environmental impacts identified above. iii. Mitigation Measures: Describe mitigation measures to eliminate or reduce identified potential environmental impacts, including those that are part of the design, any warning devices, emission control equipment, spill response, safe handling and disposal procedures, training, Individual Protective Equipment (IPE), labels on equipment, cautions and warnings in the Technical Documentation, monitoring or inspections, etc. 5 **Conclusions and Recommendations** a. Summarize the main environmental impacts and recommended mitigation measures. References 6
  - a. List references consulted in the completion of the EEA (such as Canadian legislation, DND policies and procedures, technical documentation, etc.).
    - i. Attachment 1– List of Hazardous Substances in the equipment
    - ii. Attachment 2– List of Hazardous Products
    - iii. Attachment 3– SDS for all hazardous products identified in the EEA

#### Attachment 1 - List of Equipment Parts Containing Hazardous Substances

Hazardous Substance	NSN	Original	ltem	Location	Additional
		OEM Part	Description		Details
		Number			

Metal such as aluminum,			
antimony, arsenic, beryllium.			
brass, bronze, cadmium.			
hexavalent chromium, cobalt,			
copper, lead, manganese, mercury.			
molybdenum, nickel, platinum,			
silver, selenium, tellurium,			
thallium, tin, titanium, vanadium,			
zinc, radioactive and precious			
metals,			
Asbestos			Type and Mil
			Spec
Halocarbons			Quantity (kg)
			and volume
			(L). Include
			SDS in
			Attachment 3
Polychlorinated Biphenyl			Form (liquid
			or solid),
			quantity (kg),
			volume (L)
			and
			concentration
			in ppm
Mercury and its compounds			Manufacturer
			of
			component,
			form of
			mercury (e.g.
			liquid,
			vapour,
			amalgam,
			metal halide),
			quantity (kg)
			volume (L)
			and
			concentration
			in ppm

# Attachment 2 – List of Hazardous Products

Hazardous Product	NSN	Product Part Number / Manufacturer	Ingredient	CAS Number	Controls*
Adhesives, anti-seize, anti-static, batteries, solvents, cleaners and					
degreasers, compressed gases, coolant, corrosion inhibitor,					

	cutting fluid, decontaminant,				
	desiccant, detector kit, dielectric				l
	compounds, fire extinguishing				
	agent, flame retardant, fuel,				
	grease, inspection penetrant,				
	lubricants, paints and related				
	commodities (topcoat, primer,				
	wash-primer, thinner, paint				
	stripper, powder coating,				
	underbody coating), polishing				
	compounds (automotive polish,				
	leather care), refrigerants,				
	sealants, spill kits, welding				l
	compounds (solder, flux,				
	electrode etc.), etc.				
~		 	 	- "	

\*Controls: Identify if the substance is regulated and proposed to be regulated under the *Canadian Environmental Protection Act, 1999*; targeted in Schedule 1, Toxic Substance List under CEPA and/or subject to the reporting requirements under the National Pollutant Release Inventory (NPRI).

Attachment 3 – Safety Data Sheets (SDS) for all hazardous products identified in the EEA

	DATA ITEM DE	ESCRIPTION	DND Form 1409			
1. TITLE			2. IDENTIFICATION NUMBER			
Software Version De	escription Docur	SE-306				
3. DESCRIPTION						
The SVDD is the primary configuration control document used to track and control versions of software to be released to the operational environment. It is a summary of the features and contents for the software build. It identifies and describes the version of the software being delivered to DND including all changes to the software since the last SVDD was issued.						
4. APPROVAL DATE	5. OFFICE OF P	RIMARY INTEREST	6. GIDEP APPLICABLE			
	DGLEPM /	DCSEM 12-5 (TA)				
7. APPLICATION / INTERREL	ATIONSHIP					
CDRL SE-306			AC			
DCSEM 12-5		9. APPLICABLE FORM	//5			
10. PREPARATION INSTRUCT	TIONS					
10.1 <u>FORMAT</u>						
10.1.1 The SVDD must be p DND to review, edit	prepared and sul , and manipulate	bmitted in electronic <sup>.</sup> e.	format using Microsoft Word to allow			
10.2 <u>CONTENT</u>						
1 SCOPE						
1.1 Identification						
Provide full identific version number(s) a	cation number(s) and release num	), title(s), and abbreviaber(s).	ation(s); and, if applicable, provide the			
1.2 Applicability						
Identify the intende	d recipients of t	he software release a	nd the operating system to be used.			
1.3 System Overview	V					
Proved a brief state document applies. history of system de operating sites; and	ment of the pur Describe the ger evelopment, ope list other releva	pose of the system an neral nature of the system eration, and maintena ant documents.	nd the environments to which this stem and software; summarize the nce; identify current and planned			
1.4 Documentation	Overview					
Summarize the purp considerations asso	oose and conten ciated with its u	ts of this document a se.	nd describe any security or privacy			
1.5 Points of Contact	t					
Provide a list of Con	tractor points of	f contact involved in t	his effort.			

2 REFERENCE DOCUMENTS

List the number, title, revision, and date of all documents referenced in or used in the preparation of this SVDD. If this SVDD is an update to an existing system, list the SVDD that this version is replacing as a reference document.

3 SOFTWARE VERSION DESCRIPTION

Summarize briefly in the ensuing sub-paragraphs (to include materials contained in the release, software components of the subsystem Computer Software Configuration Item (CSCI), documents used to establish the configuration of the CSCI, and any known problems).

3.1 Inventory of Materials Released

List by CM numbers, titles, abbreviations, dates, version numbers, and release numbers (as applicable), all physical media (for example, listings, tapes, disks) and associated documentation that make up the software version being released. Include applicable security and privacy considerations for these items, safeguards for handling them, such as concerns for static and magnetic fields, and instructions and restrictions regarding duplication and license provisions.

3.2 Inventory of Software Contents

List by identifying numbers, titles, abbreviations, dates, version numbers, and release numbers (as applicable), all computer files that make up the software version being released. Any applicable security and privacy considerations should be included.

3.3 Changes Installed

List all changes incorporated into the software version since the previous version. Identify, as applicable, the Engineering Change Proposals (ECP), Specification Change Notices (SCN), Notices of Revision (NOR), and any other forms associated with each change and the effects, if any, of each change on system operation and on interfaces with other hardware and software. (This section does not apply to the initial software version.)

#### 3.4 Interface Compatibility

List and describe any other systems, Configuration Items (CI) or CSCIs affected by the change(s) incorporated in the current version, if applicable.

3.5 Adaptation Data

Identify and reference all unique-to-site data contained in the software version. For software versions after the first, describe changes made to the adaptation data.

3.6 Bibliography of Reference Documents

List by identifying numbers, titles, abbreviations, dates, version numbers, and release numbers (as applicable), all documents that establish the current version of the software.

3.7 Installation Instructions

Provide or reference the following information, as applicable:

- a. Instructions for installing the software version, including instructions for deletion of old versions;
- b. Identification of other changes that have to be installed for this version to be used, including site-unique adaptation data not included in the software version;
- c. Security, privacy, or safety precautions relevant to the installation;
- d. Procedures for determining if the version has been installed properly; and

- e. A point of contact to be consulted if there are problems or questions with the installation.
- 3.8 Possible Problems and Known Errors

Identify any possible problems or known errors with the software version at the time of release, any steps being taken to resolve the problems or errors, and instructions (either directly or by reference) for recognizing, avoiding, correcting, or otherwise handling each one. The information presented will be appropriate to the intended recipient of the SVDD (for example, a user agency may need advice on avoiding errors, a support agency on correcting them).

## 3.9 Glossary

Include an alphabetical listing of all acronyms, abbreviations, and their meanings as used in this document. Also provide a list of any terms and definitions needed to understand this document.

#### 4 APPENDICES

Appendices may be used to provide information published separately for convenience in document maintenance (for example, charts, classified data, etc.). As applicable, each appendix will be referenced in the main body of the document where the data would normally have been provided. Appendices will be lettered alphabetically (A, B, etc.), and the pages will be numbered A - 1, A - 2, etc.

	DATA ITEM DESCRIPTION	DND Form 1409		
1. TITLE		2. IDENTIFICATION NUMBER		
Engineering	Change Proposal (ECP)	SE-308		
3. DESCRIPTION				
The ECP describes and subs configuration of a CI and/or evaluate the proposed char	tantiates any engineering chan r its related documentation. Th nge fully prior to authorization	nge required for a proposed alteration in the ne ECP enables the Contractor and the TA to		
4. APPROVAL DATE	5. OFFICE OF PRIMARY INTE	REST 6. GIDEP APPLICABLE		
	DGLEPM / DCSEM 12-5 (	TA)		
7. APPLICATION / INTERREL	ATIONSHIP			
CDRL SE-308	1			
8. ORIGINATOR	9. APPLICAB	LE FORMS		
DCSEM 12-5	TIONS			
	TIONS			
10.1 <u>FORMAT</u>				
10.1.1 Engineering Change Proposals (ECP) must be provided using the ECP Template, Figure 1A (s below).				
10.2 <u>CONTENT</u>				
10.2.1 The ECP must fully	describe and substantiate the	engineering change required.		
10.2.2 ECP Template Field	Descriptions			
Block 1. DATE (YY/MM/DD	). Enter the submittal date of	the ECP.		
Block 2. Enter name, addre ECP.	ess and contact information for	r DND or Contractor authority submitting the		
Block 3. CLASS of ECP. Enter the class of ECP either "Class I" or "Class II". Classifications of changes are determined in accordance with referenced paragraphs in Mil-Std-973:				
Class I: Subject to Government Approval (Para. 5.4.2.2.1. and 5.4.2.2.2). Class II: Subject to Government Approval for Classification Only (Para. 5.4.2.4.). Info copy of completed Class II change provided to DND.				
Block 4. JUSTIFICATION CO	DE. (Reference Mil-Std-973)			
B - Interface C - Compatibility D - Deficiency O - Operational or I P - Production Stop R - Cost Reduction S - Safety	ogistics Support page			

V - Value Engineering

Block 5. PRIORITY. Contractor recommendation for processing:

E - Emergency. Vital modification required to rectify a condition which may result in a serious hazard to personnel or equipment, or may seriously compromise national security. ECP to be actioned within 24 hours.

U - Urgent. Urgent modification required to rectify a condition that results in degraded mission effectiveness. ECP to be actioned within 5 days.

R - Routine. ECP to be actioned within 30 days.

Block 6. ECP DESIGNATION.

No. - Format "ECP-Y-NNN"

Y - C (Contractor) or P (Project Office – Canada) indicating Originator
 NNN - Serial number unique for each change
 Type – P (Preliminary) or F (Final)
 Rev – Enter revision indicator to identify version
 System Designation – Identify and describe the System/Sub-System affected by the ECP. Include

reference to affected configuration identifier(s).

Block 7. SPECIFICATIONS/DOCUMENTS AFFECTED. List all specifications or documents affected by the change. This must include the management plans submitted for the contract. Copies of the specifications/documents showing proposed changes must be submitted with the ECP in order to assess the impact of the change. Attach separate list as required.

Block 8. DRAWINGS AFFECTED. List all drawings or documents affected by the change. Copies of the drawings showing proposed changes must be submitted with the ECP in order to assess the impact of the change. Attach separate list as required.

Block 9. TITLE OF CHANGE. Enter a brief title to identify the component or system affected by the change.

Block 10. DESCRIPTION OF CHANGE. Describe the change in definitive terms. Supplementary information must be attached to the ECP to the extent necessary to clearly portray the proposed change and obtain approval.

Block 11. NEED FOR CHANGE. Provide an explanation of the need for the change and indicate the benefit to DND (enhanced performance, range, reliability, maintainability, etc.). The nature of the defect, failure, incident, malfunction, etc. substantiating the need for the change must be provided in detail.

Block 12. CONTRACT NUMBER AND LINE ITEMS. Insert the contract number and identify reference areas of the contract, annexes, appendices and attachments, line item numbers etc., affected by the change.

Block 13. PRODUCTION EFFECTIVITY. Indicate the estimated date of when change will be incorporated on the production line. Also indicate the planned serial number or lot number of when the change will be implemented.

Block 14. EFFECT ON PRODUCTION DELIVERY SCHEDULE. Indicate the production delivery schedule for items incorporating the change and identify if the change is a variance from the current established production and delivery schedule.

Block 15. RETROFIT. Applicable when the change must be accomplished in accepted items by retrofit.

RECOMMENDED ITEM EFFECTIVITY. Indicate the lot numbers or serial numbers of the item(s) to be retrofitted as a result of the change.

ESTIMATED KIT DELIVERY SCHEDULE/LOCATIONS. Indicate details of delivery schedule, quantities and locations for completing the retrofit as a result of the change.

ESTIMATED COSTS/SAVINGS UNDER CONTRACT. Indicate the total estimated costs/savings of the ECP on the contract.

Block 16. SUBMITTING ACTIVITY. Print the name of the individual authorized to submit the ECP and have the ECP signed and dated.

# Department of National Defence

# Canadian Armed Forces Chemical Agent Sensors – Area Detection and Identification System Appendix AC – Data Item Descriptions (DIDs)

	ENGINEERING CHANGE PROPOSAL (ECP) TEMPLATE						
1. DATE ( <i>YY</i>	(/MM/DD)						
2. ORIGINA	2. ORIGINATOR NAME AND ADDRESS						
3. CLASS OF	ECP (I or II)	4. JUSTIF Class I On	ICATION ( ly)	CODE (Appl	icable to	5. PRIORITY	
6. ECP DESI	GNATION						
No.			Туре			Revision	
SYSTEM DES	SIGNATION:						
7. SPECIFIC	ATIONS / DOCUM	IENTS AFFE	CTED	8. DRAW	INGS AFFECTE	D	
Spec/Doc No.	Title		Rev	Dwg. No.		Title	REV
9. TITLE OF	CHANGE						
10. DESCRI	PTION OF CHANG	E					
11. NEED FOR CHANGE							
12. CONTRA	12. CONTRACT NUMBER AND LINE ITEMS						
13. PRODUCTION EFFECTIVITY       14. EFFECT ON PRODUCTION DELIVERY SCHEDULE						SCHEDULE	
15. RETROF	IT			1			
RECOMMEN	NDED ITEM EFFEC	TIVITY		ESTIM	ATED KIT DELIV	VERY SCHEDULE / LC	CATIONS
ESTIMATED	COSTS / SAVINGS	UNDER CO	ONTRACT				

16. SUBMITTING ACTIVITY – Authorized Signature (Print Name and Sign) Date
ITEMS / SYSTEMS DIRECTLY AFFECTED
OTHER SYSTEMS AFFECTED
OTHER CONTRACTORS / ACTIVITIES AFFECTED
EFFECTS ON PERFORMANCE / SYSTEM SPECIFICATIONS
EFFECTS ON EMPLOYMENT, INTEGRATED LOGISTICS SUPPORT, TRAINING, OPERATIONAL EFFECTIVENESS OR SOFTWARE
EFFECTS ON ITEM SPECIFICATIONS

Figure 1A. ECP Template
	DATA ITEM D	ESCRIPTION	DND Form 1409		
1. TITLE			2. IDENTIFICATION NUMBER		
Verification T	aceability Matri	x (VTM)	SE-312		
3. DESCRIPTION					
The Verification Traceability Matrix (VTM) documents the path from each ADIS requirement in the SysRS through to individual test results to demonstrate that each and every requirement is met throughout the design, test and verification process.					
4. APPROVAL DATE	5. OFFICE OF F	PRIMARY INTEREST	6. GIDEP APPLICABLE		
	DGLEPM /	DCSEM 12-5 (TA)			
7. APPLICATION / INTERRE CDRL SE-312	ATIONSHIP				
8. ORIGINATOR		9. APPLICABLE FORM	ЛS		
DCSEM 12-5					
10. PREPARATION INSTRUC	TIONS				
10.1 <u>FORMAT</u>					
10.1.1 The VTM must be	ubmitted in elec	tronic format using N	licrosoft Office.		
10.2 <u>CONTENT</u>	CONTENT				
10.2.1 The VTM must sho SysRS requirement plans, test procedu	. The VTM must show, by the paragraph number in each document, the traceability from each ADIS SysRS requirement through specifications, hardware and software description documents, test plans, test procedures to a specific test report where the SysRS requirement is verified.				
10.2.2 The traceability lin one linkages.	ks from one docu	ument to another can	be one-to-one, one-to-many or many-to-		

	DATA ITEM DI	ESCRIPTION	DND Form 1409		
1. TITLE			2. IDENTIFICATION NUMBER		
Equipm	ent Specificatio	ı	SE-313		
3. DESCRIPTION					
The Equipment Specificatio technical characteristics of	n is a compreher the ADIS as it is c	nsive document of the designed and built.	e physical, performance and other		
4. APPROVAL DATE	5. OFFICE OF P	RIMARY INTEREST	6. GIDEP APPLICABLE		
	DGLEPM /	DCSEM 12-5 (TA)			
7. APPLICATION / INTERREL	ATIONSHIP				
CDRL SE-313					
8. ORIGINATOR		9. APPLICABLE FORM	MS		
DCSEM 12-5					
10. PREPARATION INSTRUC	TIONS				
10.1 <u>FORMAT</u>					
10.1.1 The Equipment Specification must be prepared and submitted in electronic format using Microsoft Word to allow DND to review, edit, and manipulate.					
10.2 <u>CONTENT</u>	10.2 <u>CONTENT</u>				
10.2.1 The Equipment Spe Specification, and n equipment.	.0.2.1 The Equipment Specification must be in accordance with D-01-300-100/SG-000 as a Product Specification, and must reflect the actual as designed and built ADIS system and individual equipment.				

	DATA ITEM DESCRIPTION DND Form 14							
1.	TITLE			2.	IDENTIFICATION NUMBER			
Integrated Logistics Support Plan (ILSP) IL-501								
3.	DESCRIPTION							
The Int and pro form a includin	The Integrated Logistics Support Plan (ILSP) describes the Contractor's strategy, plans, methodologies and processes for meeting the requirements of the contract, showing how the processes fit together to form a totally integrated management system to provide an integrated logistic support program including both, acquisition and In Service Support (ISS).							
The ILS Contra Contra	The ILSP will be used to provide the DND Equipment Management Team (EMT) insight into the Contractor's planning, approach to managing the scope of the work, and interfaces with the Contractor's organization.							
4.	APPROVAL	5. OFFICE OF PI	RIMARY INTEREST	6.	GIDEP APPLICABLE			
DATE		DGLEPM / DC	CSEM 12-5 (TA)					
7.	APPLICATION / IN	ITERRELATIONSH	IIP					
CDRL II	-501							
8. ORIG	GINATOR		9. APPLICABLE	FORMS				
DCS	EM 12-5							
10.	PREPARATION IN	STRUCTIONS						
10.1	FORMAT							
10.1.1	The ILSP must be DND to review, e	prepared and su dit, and manipula	bmitted in electronic ate.	format	using Microsoft Word to allow			
10.1.2	The ILSP must be	in the Contracto	r's format.					
10.1.3	The ILSP must be	version controlle	ed.					
10.2	<u>CONTENT</u>							
10.2.1	1 The ILSP must include all aspects of the ILS Program including overviews of maintenance, training and In Service Support.							
10.2.2	LO.2.2 The ILSP must be a stand-alone document that provides sufficient information to allow the reader to understand how each activity is to be completed and managed without reference to other documents, unless otherwise indicated.							
10.2.3	3 The ILSP must identify all assumptions and constraints and reference any policies that will affect the completion of work as defined in the acquisition and ISS SOWs.							
10.2.4	The ILSP must doe elements in accor	cument in detail rdance with the a	the Contractor's prog acquisition and ISS SC	gram to Ws:	complete the following ILS			
	<ul><li>a. Logistics and</li><li>b. Logistic Support</li><li>c. Provisioning Support</li></ul>	In-Service Suppo ort technical eler Support;	ort Management; ments identified in th	e acquis	ition and ISS SOWs;			

- d. Technical Publications;
- e. Supply Support;
- f. Training and training support; and
- g. Engineering support.
- 10.2.5 The ILSP must describe how the Contractor will meet and manage the security requirements of the contract in relation to the support and systems and equipment to be supported.
- 10.2.6 The ILSP must describe the Contractor's arrangements for the receipt, custody, storage, care, maintenance and issue, of any GFE provided to the Contractor under the contract.
- 10.2.7 The ILSP must describe the organizational structure responsible for managing and providing support under the contract, including:
  - a. The Contractor's organizational structure for completing the contract; and
  - b. Identification of key personnel with specific responsibilities, contact information.
- 10.2.8 The ILSP must describe the processes to be applied by the Contractor to satisfy the Quality Management System requirements of the contract including, if applicable ISO 9001 registration scope.

		DATA ITE	M DESCRIPTION		DND Form 1409		
1.	TITLE			2.	IDENTIFICATION NUMBER		
	Mainten	ance Plan (Main	t Plan)		IL-502		
3.	DESCRIPTION						
The Ma	aintenance Plan (N	1aint Plan) descr	ibes how the equipme	ent will	be supported and maintained by DND.		
Using r	maintenance analy	sis data, the Mai	intenance Plan provid	es the r	ationale for acquiring logistics support		
resour	ces and forms the	basis for provisio	oning and technical m	anual d	evelopment.		
4. DATE	APPROVAL	5. OFFICE OF P		6.	GIDEP APPLICABLE		
DATE		DGLEPM / DO	CSEM 12-5 (TA)				
7.	APPLICATION / IN	L ITERRELATIONSH	HIP				
CDRL I	L-502						
8.	ORIGINATOR		9. APPLICABLE	FORMS	5		
DCS	EM 12-5						
10.	PREPARATION IN	STRUCTIONS					
10.1	FORMAT						
10.1	The Maint Dian						
10.1.1	edit, and manipu	late.	i and submitted using	WICCOS	oft word to allow DND to review,		
10.1.2	The Maint Plan m	nust be version c	ontrolled.				
10.2	<u>CONTENT</u>						
10.2.1	The Maint Plan m	nust include:					
l 1	Maintenance Plan	Number					
1	Maintenance Plan	Date					
	1. Equipment lo	dentification					
	Identify the s	system/equipme	nt for which the Main	t Plan is	applicable:		
	- Item Nan	ne					
	- Version o	or Model Numbe	r				
	- Military 1	Type No. (AN/ )	r's Dart) No				
	- Reference (Manufacturer's Part) No.						
	2 Maintenance	Rational					
'	- Mainten	ance Plan Ration	al				
	B Description	Description					
	- Line Dray	wing or Photogra	inh				
	- Brief nar	rative description	n of the system/equip	ment.			
	1 Roliability an	d Maintainahilit	ty Characteristics				
	Provide for e	ach Maintenanc	e Significant Item:				

- Maintenance Replacement Rate (MRR)
- Mean Time To Repair (MTTR)
- Repair Cycle Time

#### 5. Maintenance Tasks

List the maintenance tasks performed by DND, grouped by level of maintenance (operator, first line) and by category (preventive, corrective). Present the data in the following format:

LCN/AL N	TASK IDENTIFICATI ON	TASK FREQUENC Y	MEAN ELAPSED TIME	RESOURCE REQUIREMEN TS	MAINTENANCE LEVEL

## 6. Logistic Resource Requirements

For each required resource (e.g. digital voltmeter, torque wrench, etc.), indicate its usage by completing the following table.

RESOURCE REQUIREMENTS	RECOMMENDE D QUANTITY	REQUIRED FOR LCN/ALN	ITEM NAME	MAINTENANCE LEVEL

# 7. Personnel Requirements

Summarize the personnel requirements by completing the following summary for each military occupation:

OCCUPATIO EQUIPMENT N TYPE (Operator, 1 <sup>st</sup> Line)	MAINTENANCE LEVEL	MANHOURS PER YEAR
--	----------------------	----------------------

DATA I	TEM DESCRIPTION	DI	ND Form 1409					
1.	TITLE		2. IDENTIFICATION NUMBER					
		Reliability Data	IL-503					
3.	3. DESCRIPTION							
The	Reliability Data pro	vides the baseline data used to define	e the ADIS reliability characteristics.					
4.	APPROVAL	5. OFFICE OF PRIMARY INTEREST	6. GIDEP APPLICABLE					
DATE		DGLEPM / DCSEM 12-5 (TA)						
-								
/.	APPLICATION / IN	ITERRELATIONSHIP						
CDRL II	L-503							
8. ORI	GINATOR	9. APPLICABLE	FORMS					
DCSEN	1-5-12							
10.	PREPARATION IN:	STRUCTIONS						
10.1	FORMAT							
10.1.1	The computer ge	nerated reliability prediction and the r	eliability block diagram must be					
	prepared in the C	ontractor's format.						
10.1.2	Mean Time Betwe	een Failures (MTBF) Data must be pre	pared and delivered in Microsoft Excel					
	format and as fur	ther described herein.						
10.1.1	The Reliability Dat	ta must be version controlled.						
10.2	<u>CONTENT</u>							
10.2.1	The Contractor m	ust provide substantiation of 1000 hrs	s MTBF via predicted or actual field data:					
	a. A computer g	enerated Reliability prediction using N	MIL-HDBK-217 (Part Stress Method),					
	Ground Mobi	le environment at 20 deg. C, constant	operation (i.e. no on-off cycle) or actual					
	field data (if a	vailable) and NRPD 11 for non-electro	onic parts.					
	b. Prediction mu	ust indicate which methodology was u	sed in preparation of the data i.e.					
	c Actual device	field data may be used. If so, the ann	licable item and data source must be					
	clearly identif	fied.						
	d. A sample Reli	ability Block Diagram (RBD) of the AD	IS down to the Line Replaceable Unit					
	(LRU) is show	n in Figure 3.						
	e. Means of fau	It detection.						
10.2.2	The computer gei	nerated reliability prediction results m	iust:					
	a. Show predict	ed results for the ADIS and all failure r	ates of the contributing					
	LRUs/assemb	lies including LRU components.						
	b. Prediction res	sults for each LRU will be distinct and (	easily identifiable from other LRU					
	c IRU/assembly res	buils. ly components must be identified inclu	uding the quantity used base and total					
	failure rates.							
	d. Individual LRI	J failure rates must be summarized ar	nd used in preparation of the RBD as					
	described in s	section 10.2.3 below.						

	e.	The result predicted	s must iden results.	tify items w	here actual	field reliat	oility data wa	as used in plac	ce of	
10.2.3	.3 The individual LRU failure rates must be recorded for each block in the RBD that contribute to the overall ADIS predicted failure rate.									
10.2.4	.4 The RBD shown in Figure 3 assumes a serial relationship between block components for sample purposes only. The Contractor must generate an RBD representative of its proposed ADIS (including any block redundancies).									
10.2.5	Th	e Contracto	or is not resp	onsible for	providing r	eliability da	ata for GFE.			
Remote Controlle Sub - sys F :	r .R.: \$	Laptop Sub -sys F .R.: 5	Electro - Mechanic al Assy Sub -sys F .R.: :	Sub -sys F .R .: :	Power Cable Sub -sys F .R.: :	Comm . Cable Sub -sys F .R.: :	Antenna . – Sub -sys F .R.: :	Detector. Sub - sys F .R .: :	ADIS System System Cumulative F	.R.: :
	F	.R. = Failure Rate	(per million hours	s )						
	Cumu	llative F .R. = Cu	umulative failure of a	all subsystems whic	h comprise the app	licable subsystem	(Ass	uming No redundant as	ssemblies )	

Figure 3: Sample ADIS System Reliability Block Diagram (RBD)

DATA IT	EM DESCRIPTION		ID	ND Form 1409			
1. TITLE				2. IDENTIFICATION NUMBER			
Serial Number Register (SNR) IL-504							
3. DESCI	3. DESCRIPTION						
The A syster	DIS <b>Serial Numbe</b> m equipment and	r Register (SNR) shipment dates	) contains information	relating to the serialization of ADIS			
4. APPR	OVAL DATE	5. OFFICE OF	PRIMARY INTEREST	6. GIDEP APPLICABLE			
		DGLEPM / D	CSEM 12-5(TA)				
7. APPLI	CATION / INTERRI	ELATIONSHIP					
CDRL IL-	-504		I				
8. ORIGI	INATOR		9. APPLICABLE FORM	15			
DCSEM-	12-5						
10. PREF	PARATION INSTRU	ICTIONS					
10.1	<u>FORMAT</u>						
10.1.1	The SNR must be Microsoft Excel to	prepared and so allow DND to r	ubmitted in electronic eview, edit, and mani	format using Microsoft Word or pulate.			
10.1.2	The SNR must be	version controll	ed.				
10.2	<u>CONTENT</u>						
10.2.1	All ADIS SNR must	t be maintained					
10.2.2	An updated copy	of the complete	SNR must be submitt	ed with each shipment.			
10.2.3	The SNR data mus data listed first, th	st be listed in or nen the previou:	der of shipment dates s shipment etc.	with the most current shipment date			
10.2.4	The following colu	umn cells must l	be contained in the rea	gister (where applicable) as a minimum:			
	<ul> <li>a. Item No;</li> <li>b. Contract Number;</li> <li>c. Order Number (if applicable);</li> <li>d. Item Description;</li> <li>e. Item Serial No.;</li> <li>f. Quantity in Shipment;</li> <li>g. Shipment Date ;</li> <li>h. Destination (as shown on shipping documents);</li> <li>i. Contract Line Item Number;</li> <li>j. Invoice No.;</li> <li>k. Item Warranty Expiry Date; and</li> <li>l. Shelf Life</li> </ul>						
10.2.5	The Contractor m warranted.	ay include any o	other equipment move	ement information as deemed			
10.2.6	The Contractor is GFE.	responsible to p	provide SNR for all Cor	tractor supplied equipment, but not for			

DATA I	TEM DESCRIPTION		D	ND Form 1409				
1. TITL	E			2. IDENTIFICATION NUMBER				
	Equipment Iden	tification (ID) P	late Drawings	IL-506				
3. DESO	CRIPTION							
The Eq approv	The Equipment Identification Plate Drawings provides the information required to obtain design approval prior to the production of Equipment Identification plates.							
4. APP	ROVAL DATE	5. OFFICE OF P	OFFICE OF PRIMARY INTEREST 6. GIDEP APPLICABLE					
		DGLEPM / D	CSEM 12-5 (TA)					
7. APPI CDRL II	LICATION / INTERR L-506	ELATIONSHIP						
8. ORIC	GINATOR		9. APPLICABLE FORM	ЛS				
DCS	EM 12-5							
10. PRI	EPARATION INSTRU	JCTIONS						
10.1	FORMAT							
10.1.1	The proposed Equ submitted as Eng Provisioning Drav	uipment Identifi ineering drawin vings and Associ	cation Plate Drawings gs, and in electronic for iated Parts List.	s must be in the Contractor's format and ormat, as described in DID-IL-514:				
10.2	<u>CONTENT</u>							
10.2.1	The Equipment Ic 001/SG-001, Iden	lentification Plat tification Marki	te drawings must be p ng of Canadian Milita	prepared in accordance with D-02-002- ry Property.				
10.2.2	The Equipment lo information:	lentification Plat	te Data must, as a mir	nimum, contain the following				
	<ul> <li>a. The Item Name in both Canadian English and Canadian French* including Manufacturer's or Type Number, as applicable;</li> <li>b. NSN;</li> <li>c. Serial Number (if applicable);</li> <li>d. CAGE Code;</li> <li>e. Manufacturer's Part Number;</li> <li>f. Contract Number;</li> <li>g. Special Characteristics, if applicable e.g. 208V 3 Phase; and</li> </ul>							
10.2.3	Drawings of ident	ification plates	must include the follo	owing data:				
	<ul> <li>Drawings of identification plates must include the following data:</li> <li>a. Proposed marking;</li> <li>b. Marking arrangements;</li> <li>c. Type and size of characters;</li> <li>d. Colour scheme;</li> <li>e. Material and finish of plate;</li> <li>f. Size and thickness of plate;</li> <li>g. Method of affixing; and</li> </ul>							

\* Note: The Item Name must be both the Canadian English and Canadian French names assigned to the item in the LBS.

DATA ITEM DESCRIPTION DND Form 1409						
1. TITLE				2. IDENTIFICATION NUMBER		
	IL-508					
3. DESC	RIPTION					
The I	Marking Data For S	itorage and Ship	ment provides detaile	d information required to provide		
4. APPF	OVAL DATE	DGLERM / D	$CSEM 12_5 (TA)$	6. GIDEP APPLICABLE		
	-508	LLAHONSHIP				
				15		
DCSEM	12-5					
10. PRE	PARATION INSTRU	ICTIONS	I			
10.1	FORMAT					
10 1 1	The Marking data	must be propa	ad and submitted in a	Jactronic format using Microsoft Word		
10.1.1	to allow DND to r	eview, edit, and	manipulate.	nectionic format using microsoft word		
10.1.2	The Marking data	must be in the	Contractor's format a	nd as further described herein.		
10.1.3	The Marking Data	review docume	ent must be version co	ontrolled.		
10.2	<u>CONTENT</u>					
10.2.1	Marking Data for Specification for N	Storage and Shi Marking for Stor	pment must be in acc age and Shipment and	ordance with D-LM-008-002/SF-001 l as further described herein.		
10.2.2	The following info	ormation must a	ppear on all shipping	containers and palletized unit loads:		
	a. Manufacture'	's Name;				
	b. Part Number;					
	c. NSN; d Nomenclature	o.				
	e. Quantity/Unit	e, t of Issue;				
	f. Date of manu	facture;				
	g. Date of repair or overhaul;					
	h. Drawing number; i Batch/lot number;					
	j. Protection an	d Date Marking	;			
	k. Contract Seria	al Number;				
	I. Special Marki	ngs; and				

DATA I	TEM DESCRIPTION		DI	ND Form 1409	
1. TITLE	=			2. IDENTIFICATION NUMBER	
	Р	ackaging Data		IL-509	
3. DESC	CRIPTION				
The Pac that are	ckaging Data identi e to be shipped to	fies packaging r or stored at DNI	equirements for all ite D facilities.	ems delivered as part of the Contract	
4. APPF	ROVAL DATE	5. OFFICE OF P	RIMARY INTEREST	6. GIDEP APPLICABLE	
		DGLEPM / D	CSEM 12-5 (TA)		
7. APPI CDRL II	LICATION / INTERR	ELATIONSHIP			
8. ORIG	GINATOR		9. APPLICABLE FORM	ЛS	
DCSE	EM 12-5				
10. PRE	EPARATION INSTRU	ICTIONS			
10.1	<u>FORMAT</u>				
10.1.1	The Packaging Da	ta must be in th	e Contractor's format		
10.1.2	The Packaging Da review, edit and r	ta must be prep nanipulate.	pared and submitted u	ising Microsoft Word to allow DND to	
10.1.3	The Packaging Da	ta document m	ust be version control	led.	
10.2	<u>CONTENT</u>				
10.2.1	<ol> <li>The Packaging Data must identify packaging requirements in accordance with D-LM-008-002/SF-001, Specification for Marking for Storage and Shipment, for all items delivered as part of the Contract that are to be shipped to or stored at DND facilities. The Packaging Data must include the following:</li> </ol>				
	<ul> <li>a. Item Identific</li> <li>i. Item</li> <li>ii. Refer</li> <li>iii. CAGE</li> <li>iv. NSN (</li> <li>b. Packaging Dar</li> <li>i. Unit F</li> <li>ii. Unit F</li> <li>iii. Packi</li> <li>in acc</li> <li>iv. Hazar</li> <li>v. Speci</li> </ul>	ation: Name*; ence (Manufact Code; and if assigned); and ta: Pack Size (length Pack Weight; ng Code (Level of cordance with Se dous Code (Reg al Packaging Ins	curer's Part) Number; d n, width, depth) of Protection, A, B or C ection 3.1 of D-LM-003 gulated/Non-regulated tructions.	C, 8-011/SF-001); d); and	
10.2.2	To reduce the need data applying to t	ed for redundan he group.	t data, similar items n	nay be grouped with the same packaging	
40.0.0	AU				

10.2.3 All units of measures must be metric, i.e. length in meters, weight in kilograms, etc.

\* **Note:** The Item Name must be both of the Canadian English and Canadian French names assigned to the item in the LBS.

DATA I	TEM DESCRIPTION		D	ND	Form 1409	
1. TITL	E				2. IDENTIFICATION NUMBER	
Pro	ovisioning Parts Bre	eakdown (PPB)/ Parts List (RSPL)	Recommended Spare	e	IL-510	
3. DESCRIPTION The Provisioning Parts Breakdown (PPB)/Recommended Spare Parts List (RSPL) provides the data needed by DND to identify, catalogue, calculate and procure the range and depth of repairable an consumable spares needed by each line of maintenance.						
4. APPI	ROVAL DATE	5. OFFICE OF F	PRIMARY INTEREST	6.	GIDEP APPLICABLE	
		DGLEPM / DO	CSEM 12-5 (TA)			
7. APPI CDRL II	LICATION / INTERRI 510	ELATIONSHIP				
8. ORI	GINATOR		9. APPLICABLE FORM	٨S		
DCSEN	12-5					
10.	PREPARATION INS	STRUCTIONS				
10.1	<u>FORMAT</u>					
10.1.1	1.1 The PPB/RSPL must be prepared and provided electronically using Microsoft Excel (see D-01- 100-214/SF-000 for column definitions and table below for column organization) to allow DND to review, edit, and manipulate.					
10.2	<u>CONTENT</u>					
10.2.1	The PPB/RSPL for Documentation D	ADIS must cont ata Elements, fo	ain the data elements or each item consider	s sp ed f	ecified in Table below – Provisioning for provisioning.	
10.2.2	PPB/RSPL must in	clude all spare p	parts and consumable	s as	they are identified.	
10.2.3	The PPB must pro which it is being p	ovide a top dowr procured.	n breakdown of the sy	vste	m equipment in the configuration in	
10.2.4	The PPB must be required to verify	accompanied by the complete a	<pre>v copies of all top leve nd current configurat</pre>	l dr ion	awings and Parts Lists that are of the equipment.	
10.2.5	The RSPL must listits associated sup	t First Line spare port equipment	es deemed necessary for a period of 24 mc	to r onth	maintain the system equipment and ns exclusive of any warranty period.	
10.2.6	5 The PPB/RSPL also identifies repairable items as well as their respective MTBF data so that sparing analysis can be performed					
10.2.7	<ul> <li>7 The PPB/RSPL must list all equipment (e.g. laptop computer, Electro-optical unit, electro-mechanical, Control unit, cables, battery chargers, hard storage cases etc.) in the proposed system, and their respective First Line replaceable spare parts (e.g. screws, sensors, track, lens cups etc.) required to maintain the equipment as described in the Maintenance and Support Concept.</li> </ul>					

10.2.8	The PPB/RSPL support equipr year per ADIS (	must list recommended spares required to maintain the equipment (ADIS and ment) for a 24 month period assuming the combined usage rate of 1000 hrs per (for a total of 32 systems x 1000 hrs = 32,000 operating hrs per year).					
10.2.9	The attached sample PPB/RSPL gives spreadsheet format and a sample equipment breakdown and their respective indenture codes as 1, 2, etc. (based upon the LBS). Indenture codes C (level 3) and below must represent all ADIS and support equipment 1 <sup>st</sup> Line maintenance spare parts.						
10.2.10	The table must the top of the	t be completed by the Contractor by providing the required data as identified at spreadsheet.					
10.2.11	10.2.11 Data for indenture levels 3 and below will be identified and listed for each of the ADIS and support equipment. Sample inputs have been inserted for some of the data fields for example purposes only and may or may not be applicable to the specific piece of equipment.						
10.2.12	2 Each PPB/RSPL	. submission bears version identification (i.e. date or version).					
10.2.13	10.2.13 PPB/RSPL contents and data must be consistent with those contained in the approved Provisioning Drawings & Associated Lists see DID IL-514 (where applicable), and Logistical Breakdown Structure (LBS) see DID IL-526.						
10.2.14	4 Abbreviations	used in the Provisioning Documentation table are as follows:					
	OEM: NSN: Qty/Assy: UOI: PLT: REP: DMC: MTBF NA:	Original Equipment Manufacturer; NATO Stock Number; Quantity per Assembly; Unit of Issue; Procurement Lead Time (Long Lead Time Items); Repairability: [Repairable R, Non-Repairable (NR)]; Demilitarization Code; Mean Time Between Failure; and Not Applicable.					
NOTE:	The Indenture relationship of components ( the system, "B	Code is a code which illustrates a lateral and descending "family tree" f each line item to and within the system or end item and its discrete units), assemblies and subassemblies, and subassemblies beginning with "A" for 8" for the system components, "C" for assemblies, "D" for subassemblies, etc.					

#### ADIS Sample PPB/RSPL

Notes:

1 This table must be completed in accordance with D-01-100-214/SF-000

2 Item names and contents MUST match those shown in the LBS, drawings and other project documentation.

lte m #	Inden t. Code	ltem Name	Applicable Drawing Title	Supplie r Part Numbe r	OEM Part Number (if different from Supplier)	Cage Code	NSN	Qty per Assy	UOI	Std Unit Price \$CDN	PLT (days)	Recomm. Buy Qty For Total Usage Rate of 24,000 hrs/yr	Recomm Total QTY Spares for 2 Years	Total Cost \$CDN	REP	DMC	Shelf Life	MTBF (hrs)	Contains Hazardo us Material (Yes/No)
001	А	ADIS																	
002	в	Transit Case																	
003	С	Lid Seal																	
004	С	Handles																	
005	D	Screws																	
006	В	Electro- Optical Unit																	
007	В	Laptop Computer																	
008	В	Remote Controller																	
009	В	Power Cable																	
010	В	Comm. Cable																	
011	В	Tripod																	
012	В	Consumables																	
013		ETC																	

014	Consumables									
015										

DATA I	TEM DESCRIPTION		D	ND Form 1409		
1. TITL	E			2. IDENTIFICATION NUMBER		
Su	pplementary Provi	isioning Technic (SPTD)	al Documentation	IL-511		
3. DESCRIPTION						
The SPTD provides the information required to uniquely identify, for cataloguing purposes, all Configuration Items (CI) and DND Spare Parts and Consumable Items within the scope of this Contract that are not already in the Canadian Government Catalogue of Materiel (CGCM).						
4. APPI	ROVAL DATE	5. OFFICE OF P	RIMARY INTEREST	6. GIDEP APPLICABLE		
		DGLEPM / D	CSEM 12-5 (TA)			
7. APPI CDRL II	ICATION / INTERRI 511	ELATIONSHIP	Γ			
8. ORIO	SINATOR		9. APPLICABLE FORM	٨S		
DCS	EM 12-5					
10. PRI	EPARATION INSTRU	ICTIONS				
10.1	FORMAT					
10.1.1	The SPTD must be DND to review, ee	e prepared and s dit, and manipul	submitted in electroni ate	ic format using Microsoft Office to allow		
10.2	<u>CONTENT</u>					
10.2.1	The SPTD must be <u>Preparation of Pro</u> following data to	e prepared in ac ovisioning Docu clearly define ea	cordance with the cur <u>mentation</u> , for conten ach CI for cataloguing	rrent issue of D-01-100-214/SF-000, It purposes. The SPTD must provide the :		
	a. Item Name, V	ersion or Mode	l Number;			
	b. Manufacture	part number;				
	d. Alternate par	t number. with a	applicable CAGE Code			
	e. NSN, if assign	ed by another c	ountry;	, ,		
	f. Unit of Issue;					
	g. Item drawing	or illustration;	iding rolovant standar			
	i. Physical chara	acteristics, such	as dimensions, tolera	nces, materials, mandatory processes.		
	surface finish	, protective coa	ting;	· · · · · · · · · · · · · · · · · · ·		
	j. Electrical char	racteristics;				
	k. Performance	data, including	the item's environme	ntal and operating conditions;		
	i. item shelf life	e and associated	information such as s	storage conditions/restrictions,		
	m. Disposal proc	edures and rest	rictions; and			
	n. Commercial catalogue data.					

10.2.2	The SPTD must identify any proprietary data or restrictions imposed on the release of its
	technical data to government entities in Canada or abroad.

	DATA ITEM DES	SCRIPTION		DND Form 1409
1. TITLE			2. IDENTIFICATION	N NUMBER
Material Cl	hange Notice (N	1CN)	IL	-513
3. DESCRIPTION				
The MCN provides the infor including anticipated obsole	mation required	d whenever changes	to provisioning docu	mentation occurs,
4. APPROVAL DATE	5. OFFICE OF F	PRIMARY INTEREST	6. GIDEP APPLICA	BLE
	DGLEPM /	DCSEM 12-5 (TA)	N	N/A
7. APPLICATION / INTERREL CDRL IL-513	ATIONSHIP			
8. ORIGINATOR DCSEM 12-5		9. APPLICABLE FO	RMS	
10. PREPARATION INSTRUC	TIONS			
10.1 <u>FORMAT</u>				
10.1.1 A MCN must be pre Change Notice, to id or technical data us	pared in accord dentify changes ing Microsoft W	ance with D-01-100- to parts or assembli /ord or Microsoft Ex	215/SF-000, Preparates (down to the lowe cel.	tion of Material st replaceable part)
10.2 <u>CONTENT</u>				
10.2.1 The MCN must inclu	ude the informa	tion shown below.		
10.2.2 The MCN must subst tolerances of affect	stantiate the cha ed parts or asse	ange, describe any c mblies, and recomm	hange in the perform nend a course of actio	ance parameters or on for DND.
MANAGEMENT Contractor replacement	DATA	ŀ	ACTION REQUIRED (Cl	heck one only) tem without
Equipment Name		🗆 Ad	d new item	
Contract Number		🗆 Rej	place existing item with	th new item
MCN Sequence Numb	per proved/Rejected	Am 🗆 Am (DND use only)	end existing item	
		(DND use only)		
- Item Number	(unique sec	quence no.)		NEW DATA
- Indenture Code				
- Item Name				
- Reference (Man	ufacturer's Part)	No.		
- CAGE Code				

-	OEM's Part Number (if assigned)	
-	NATO Stock Number (if assigned)	
-	Quantity Per Assembly	
-	Standard Unit Price	
-	Unit of Issue (UOI)	
-	Unit of Measure	
-	Government Supplied Material (GSM)	
-	Procurement Lead Time (PLT)	
-	Reference Designation	
-	Shelf Life	
-	Usage Rate	
-	Recommended Buy Quantity	

DATA I	TEM DESCRIPTION		DI	ND Form	1409	
1. TITLE	Ē			2. IDEN	ITIFICATION NUMBER	
	Provisioning D	Orawings & Asso	ociated Lists		IL-514	
3. DESC	CRIPTION					
Provisioning Drawings & Associated Lists to define the Product Baseline for in-service configuration management and to provide a source of information to support configuration, maintenance and provisioning analysis activities.						
4. APPF	ROVAL DATE	5. OFFICE OF P	RIMARY INTEREST		6. GIDEP APPLICABLE	
		DGLEPM / D	CSEM 12-5 (TA)			
7. APPL CDRL IL	lication / Interr 514	ELATIONSHIP				
8. ORIG	GINATOR		9. APPLICABLE FORM	/IS		
DCSE	EM 12-5					
10.	PREPARATION IN	STRUCTIONS				
10.1	FORMAT					
10.1.1	The Provisioning provided in accor 10.2.	Drawings & Asso dance with the r	ociated Lists, including requirements set out a	Referer and in th	nce Documents, must be ne final form specified in Section	
10.1.2	All drawings must	t be bilingual (Ca	anadian English and Ca	anadian	French).	
10.1.3	Applicable Docum	nents				
	<ul> <li>a. C-01-000-100/AG-004, Production and Acquisition of Engineering Data;</li> <li>b. D-01-400-002/SF-000, Drawings, Engineering and Associated Lists;</li> <li>c. ASME Y14.100 dated 2004-01-01, Engineering Drawing Practices;</li> <li>d. ASME Y14.24 dated 2004, Types and Applications of Engineering Drawings;</li> <li>e. ASME Y14.34 dated 2002, Associated Lists;</li> <li>f. ISO 9660 dated 1988, Information Processing - Volume and File Structure of CDROM for Information Interchange;</li> <li>g. CAN/CSA-Z234.1 dated 2000-12-01, Canadian Metric Practices Guide; and</li> <li>h. TIFF Revision 6, Adobe Systems Incorporated dated June 3, 1992.</li> </ul>					
10.2	<u>CONTENT</u>					
10.2.1	<u>Drawing Level</u> : The Contractor must deliver top-Level 2 drawings in order to support the PPB (DID-IL-510) contents and the LBS (DID- IL-526). The Contractor must also deliver exploded view drawings and illustrated parts list in accordance with MIL-PRF-38807C to support maintenance activities and the generation of an "Illustrated Repair Parts Manual and Scale" by DND.					
10.2.2	DND/CAF Data List be prepared in ac Drawings. Data L declared for futur	its (CAGE 35907 cordance with t ists must be pre re production by	) Data Lists complete he governing standard pared at the item leve the Technical Author	with Cov d and su el of asse ity.	ver Sheets are required and must pplied as part of the Provisioning embly (and/or end item)	

- 10.2.3 <u>Reference Documents</u> Reference documents called up on the provisioning drawings (excepting those, which are government, society and readily available industrial specifications or standards) must be included as part of the provisioning drawings and associated lists.
- 10.2.4 <u>Contractor Drawings</u> Existing Contractor drawings must be acceptable provided they meet the requirements of paragraph 3.2 of D-01-400-002/SF-000. In the event that contractor drawings do not meet the specified requirements the contractor must rework the drawings to ensure that the requirements are met.
- 10.2.5 <u>DND/CAF Drawings (CAGE 35907)</u> New Provisioning Drawings and Associated Lists must be prepared in accordance with the governing Specification/Standard and the clauses set out herein.
- 10.2.5.1 Drawing Number Allocation CAF drawing numbers must be allocated for use on DND/CAF engineering drawings and associated lists (data lists and cover sheets). The allotment must be requested in writing from DSCO (address as specified herein). Requests must specify the quantity of numbers required, the contract number and contract name. Drawing number requests must be sufficiently liberal to preclude the necessity of subsequent requests. Allocated CAF drawing numbers must be used for this contract only.
- 10.2.5.2 <u>Technical Data Action Notice (TDAN)</u> A TDAN must be prepared listing all Drawings and Associated Lists delivered as a result of the contract. A sample TDAN can be provided upon request. The TDAN number for this project is will be assigned at Contract Award.
- 10.2.5.3 <u>Forms</u> Drawing and Associated List electronic forms must be Government supplied material and obtained by written request to DSCO.
- 10.2.5.4 <u>Drawing System</u> The mono-detail drawing system must be used.
- 10.2.5.5 <u>Drawing Types</u> The contractor must provide the necessary types of drawings that will satisfy the sophistication of the specified drawing level and must be subject to the approval of both the DND Technical Authority and DSCO.
- 10.2.5.6 <u>Parts Lists</u> Parts lists must be prepared integral with the drawings. On multi-sheet drawings, the parts list must be placed on sheet one (1).
- 10.2.5.7 <u>Control Drawings</u> Control drawings as defined in the governing standard must be prepared for commercial items approved for use in the design, which are not defined by Government or nationally recognized industrial specifications and standards.
- 10.2.5.8 <u>Interface Control Drawings</u> Interface control drawings must be prepared describing the mechanical and electrical interfaces between sub-systems and components.
- 10.2.5.9 <u>Family-Tree Drawing(s)</u> The contractor must prepare a Family-Tree Drawing(s) of the complete configuration of the Provisioning Drawing Package and it must be subject to the approval of both the DND Technical Authority and DSCO.
- 10.2.5.10 <u>Title / Revision Blocks</u> Identifiers must be inserted in the Title / Revision Block of each Drawing and Associated List as shown in Table 3.

# 10.2.5.11 <u>Units of Measure</u> Units of measure will be in metric, which must comply with Z234.1-00 Canadian Metric Practices Guide.

- 10.2.6 <u>Integration</u> The prime Contractor must be fully responsible for the integration of Contractor and DND/CAF Drawings to form a complete Provisioning Drawing Package.
- 10.2.7 <u>Data Rights.</u> Unless otherwise specified in the Terms and Conditions of the contract, the Government of Canada must have rights in data as set out below.
- 10.2.7.1 <u>Data Rights Legend.</u> The Contractor must mark all Foreground and Background Provisioning Drawings and Associated lists delivered under this contract with a complete notation indicating the ownership of the rights in the Drawings and Associated lists and the rights granted to Canada in the following legend:

"This document is furnished pursuant to a contract bearing the Serial No XXXXXX, dated \_\_\_\_\_\_ between (Name of Contractor and Her Majesty the Queen in Right of Canada. This document contains Background Intellectual Property (and/or Foreground Intellectual Property - choose as appropriate) as defined in the Contract which may be used only in the manner specified in the Contract."

- 10.2.7.2 Unlimited Rights (Foreground Data-CAGE 35907) The Government of Canada must have unlimited rights in all Provisioning Drawings, Associated Lists and Reference Documents produced or provided as a result of this contract. The Government of Canada must have the right to use, translate into Canada's other official language, duplicate, revise or disclose such technical data, in whole or in part, in any manner and for any purpose whatsoever, and to have or permit others to do so.
- 10.2.7.3 Limited Rights (Background Data) The Government of Canada must have limited rights only and must hold in confidence all Existing Provisioning Drawings, Associated Lists and Reference Documents supplied under this contract that bears the Contractor's "Limited Proprietary Rights" restrictive legend. The Government of Canada must have the right to use, translate, duplicate or disclose such technical data, in whole or in part, by or for the Government of Canada, with the express limitation that such technical data must not, without the express written permission of the Contractor furnishing such technical data, be:
  - a. Released or disclosed in whole or in part outside the Government of Canada;
  - b. Used in whole or in part by the Government of Canada for manufacture; and
  - c. Used by a party other than the Government of Canada, except for:
    - i. Emergency repair or overhaul work only, by or for the Government of Canada, where the item or process concerned is not reasonably available to enable timely performance of the work, provided that the release or disclosure thereof outside the Government of Canada must be made subject to the prohibition against further use, release or disclosure, and
    - ii. Release to other Governments for the furtherance of the mutual defense of Canada and other such Governments, only for the information and evaluation within such Governments, or for such Governments under the conditions of (i) above.
- 10.2.8 <u>Quality Assurance Provisions.</u> Quality of the Provisioning Drawings and Associated Lists delivered on this contract is the responsibility of the contractor and subject to the quality requirements of the contract.

10.2.8.1	Acceptance: Acceptance of the Provisioning Drawings, Associated Lists and Reference
	Documents for technical content requirements will be the responsibility of the DND
	Technical Authority. Acceptance of the Provisioning Drawings, Associated Lists, Reference
	Documents and Electronic Data Deliverables for format requirements will be DSCO.

- 10.2.8.2 Interim Deliverables for Acceptance Purposes Two complete, full-size, print copy sets of the Provisioning Drawings, Associated Lists and Reference Data must be delivered in hard copy form for acceptance purposes (reduced size" print copies may be acceptable provided that they are legible). If the package cannot be accepted, for reasons of either technical content or format, it may be necessary to resubmit the print copy sets.
- 10.2.8.3 <u>Level 2 Prototype</u> Following acceptance of the Level 2 Provisioning Drawings, Associated Lists and Reference Documents, the Level 2 Provisioning Drawings, Associated Lists and Reference Documents must be forwarded to DSCO.
- 10.2.9 <u>Final Deliverables.</u> Upon acceptance, the Level 2 Provisioning Drawings, Associated Lists and Reference Data must be delivered in soft copy form as outlined herein.
- 10.2.9.1 <u>Soft Copy Deliverables</u> must include the Provisioning Drawings, Associated Lists, Reference Data and the associated Metadata in electronic form.
- 10.2.9.2 <u>Provisioning Drawings.</u> Unless otherwise specified in the individual tasks, Provisioning Drawings must be delivered in the Native format, Vector data and in the distributed format, Raster data. Multi-sheet Drawings must be delivered one sheet per file.
- 10.2.9.3 <u>Vector data</u> must be delivered in their native file format in which the data was originally created.
- 10.2.9.4 <u>Raster data</u> must be delivered in accordance with Para 9.1.6 herein.
- 10.2.9.5 <u>Associated Lists</u> must be delivered in the native Microsoft Word file and a PDF file (300 DPI).
- 10.2.9.6 <u>Reference Documents</u> Reference Documents must be delivered as a PDF file (300 DPI) or in a format deemed acceptable by the DSCO.
- 10.2.9.7 <u>TDAN</u> must be delivered in the native Microsoft Word file and a PDF file (300 DPI). Alternate file formats may be acceptable provided they have been discussed and approved in writing by DSCO. NOTE: One (1) hard copy of the TDAN complete with contractor's signatures must be provided with the final deliverables.
- 10.2.9.8 <u>Metadata (Capture of Related Information).</u> Metadata (the data that describes data objects) must be provided for all Provisioning Drawings, Associated Lists and Reference Data deliverables. Metadata records must contain the information in the order shown in Table. Metadata must be delivered as a Microsoft Access database table. Sample Metadata record entries are shown at Figure 4.
- 10.2.9.9 <u>Database Table.</u> Each delivered image must have a corresponding database record. All records must be entered into a single Microsoft Access database table. Fields without corresponding information must remain blank. The Microsoft Access database file must be named "metadata.mdb".

- 10.2.9.10 <u>File Formats for Raster Data</u> Raster data must be Tagged Image File Format in accordance with Adobe Systems Inc. specification "TIFF Revision 6", compressed to CCITT Group 4. Files must be UNTILED and be wholly raster (hybrid files must not be delivered).
- 10.2.9.11 <u>Pel Density</u> Raster image pixel element (Pel) density must be 200 dpi.
- 10.2.9.12 <u>Position of Pels</u> Position of Pels must be as follows:
- 10.2.9.12.1 Portrait Data: line progression 270 degrees, Pel path 0 degrees.
- 10.2.9.12.2 Landscape Data: line progression 270 degrees, Pel path 0 degrees.
- 10.2.9.13 <u>Image Sizes</u> Image sizes as outlined in Table 4 are provided as a guide and sizes may vary slightly, but no more than plus or minus one inch (25 mm) in either width or length.
- 10.2.9.14 <u>Cropping.</u> Images must be cropped such that the provisioning drawing is free from extraneous information. For example, drawing formats having an inside and an outside border must be cropped closely to the outside of the outside border. Drawing formats having only one border, where zone or quadrant identification is outside of that border must be cropped such that the zone information is retained.
- 10.2.9.15 <u>Skew Correction</u> In general, skew correction is not required. If the Contractor deems it necessary, correction must be done to 0 degrees and 90 degrees.
- 10.2.9.16 <u>Despeckling</u> If any despeckling is required, the Contractor must ensure that data integrity is not compromised by this operation.
- 10.2.9.17 <u>Image Foreground /Background</u> Images must be black on white background.
- 10.2.9.18 <u>File Names/Batch Number Allocation</u> File names and a batch number must be requested in writing from DSCO. Quantity of file names required must be specified at the time of the request.
- 10.2.9.19 <u>Media of Delivery</u> The media form for final delivery of electronic data must be CD-ROM, written in accordance with ISO 9660. (File compression software must not be used.) Each CD-ROM and its case must be labelled or marked in a method of the contractor's choosing. Each label or marking must display the Batch Number, Contract / Task number, TDAN number and the date the CD-ROM was created.
- 10.2.10 Packaging/Marking/Loss/Damage. Reproducible and non-reproducible data must be preserved, packaged, and marked in accordance with CAF Standard D-LM-008-022/SG-000. Exterior shipping containers must be marked with the contract and TDAN number and in the event of loss or damage while in shipment, the responsibility for replacement must be that of the primary Contractor and must be at the primary Contractor's expense.
- 10.2.10.1 Mail or Courier Delivery DSCO Deliverables must be forwarded to:

Department of National Defence National Defence Headquarters, MGen George R. Pearkes Building, OTTAWA ON K1A 0K2

Attention: DSCO 5-3-5

10.2.10.2	Inquiries or Visits After contract award, DSCO may be contacted at (819) 994-9352, fax (819) 997-0302. The address is:						
Department	Department of National Defence						
National De	fence Headquarters,						
MGen George R. Pearkes Building,							
OTTAWA ON K1A 0K2Attention: DSCO 5-3-5							

# TABLE 3 - INDEX FIELDS

Order	Field Name	Max Field Length	Field Definition / Description	Example Entry	
1	FILENAME (all one word)	12 (8.3)	Name of electronic file - unique filename for uploading in database. File names will be issued by DTICS 3-2. Alpha characters <b>must</b> be uppercase.	LZ00235.TIF	
2	<b>BATCHNO</b> (all one word)	8	Batch number - used for uploading files in database. Batch number will be assigned with filenames. Alpha characters <b>must</b> be uppercase.	LZ001	
3	<b>DOCUMENTNO</b> (all one word)	25	This field <b>must</b> contain the document number.	9775458	
4	REVISION	3	Letter or number indicating the revision level. If there is no rev, indicate with dash ("-")	l. B	
5	SHEETNO (all one word)	3	Sheet number x of y. Enter the value of x.	1	
6	NOOFSHEETS (all one word)	3	Sheet number x of y. Enter the value of y.	1	
7	FRAMENO (all one word)	3	Frame number x of y. Enter the value of x. (This field is applicable only when capturing data from aperture cards.) When field is not applicable, leave blank.		
8	NOOFFRAMES (all one word)	3	Frame number x of y. Enter the value of y. (This field is applicable only when capturing data from aperture cards.) When field is not applicable, leave blank.		
9	NSCM	5	This field <b>must</b> contain the NATO Supply Code for Manufacturers (NSCM) of the Owner of the data. (Also known as FSCM, CAGE or NCAGE code.)	35097	
10	SIZE	2	This field contains the document size. -For imperial sizes use A, B, C, D, E, F, G, H, J, K and LE (for legal) -For metric sizes use A4, A3, A2, A1, A0 and B1.	A2	
11	<b>ADDITIONALIDENTIFIER</b> (all one word)	10	This open field <b>must</b> be used when two (2) or more documents have the same document number but are different documents. e.g. Document 12345,	DCR 001	

			Document 12345 DCR 001, then "DCR 001" would be entered in this field. When field is not applicable, leave blank.	
12	<b>DATARIGHTS</b> (all one word)	1	The data rights as specified in the contract. "L" for "LIMITED" or "U" for "UNLIMITED"	U
13	<b>DOCUMENTTITLE</b> (all one word)	240	Title of document. (i.e. Drawing title)	BRACKET ASSY
14	TDANNO (all one word)	12	This field <b>must</b> be used to enter the TDAN number assigned for the project.	034471008
15	ERN	8	This field <b>must</b> be used for the Equipment Registration Number. Information <b>must</b> be provided if required, otherwise the field may be left blank.	
16	EAC	8	This field <b>must</b> be used for the Equipment Application Code. Information <b>must</b> be provided if required, otherwise the field may be left blank.	
17	EQUIPMENT	75	Name of the Equipment. Information <b>must</b> be provided if required, otherwise the field may be left blank.	

# Table 4 DRAWING SIZES

h						
	METRIC DRAWING SIZES					
Drawing	W x L (max)	Pels	Number			
Size	(mm)	Per Line	of Lines			
A4	210 X 297	1656	2344			
A3	297 X 420	2344	3312			
A2	420 X 594	3312	4680			
A1	594 X 841	4680	6624			
AO	841 X 1189	6624	9368			
B1	707 X 1000	5567	7875			
	NORTH AMERICAN / IMPERIAL DRAWING SIZES					
Drawing Size	W x L (max) (inches)	Pels Per Line	Number of Lines			
A	8.5 x 11	1704	2200			
В	11 x 17	2200	3400			

Department of National Defence Canadian Armed Forces Chemical Agent Sensors – Area Detection and Identification System Appendix AC – Data Item Descriptions (DIDs)

С	17 x 22	3400	4400
D	22 x 34	4400	6800
E	34 x 44	6800	8800
F	28 x 40	5600	8000
G	11 x 90	2200	18000
Н	28 x 143	5600	28600
J	34 x 176	6800	35200
к	40 x 143	8000	28600
Legal	8.5 x 14	1704	2800

# Sample record entries (Metadata) in database table:

FILENAME	BATCHNO	DOCUMENTNO	REVISION	SHEETNO	NOOFSHEETS	FRAMENO	NOOFFRAMES
LZ000235.TIF	LZ001	9775458	В	1	1	1	1
LZ000236.TIF	LZ001	9775457	-	1	1		

(The following table is shown on two lines to suit page width.)

FIGURE 4: Sample Metadata Records

DATA I	TEM DESCRIPTION		DI	ND Form 1409	
1. TITLE			2. IDENTIFICATION NUMBER		
Operators Manual (Op Man)			IL-515		
3. DESC					
The main	Op Man provides on tenance and stora	letailed informa	tion associated with the requirement of the result of the	ne operation, care, operator	
4. APPROVAL DATE 5. OFFICE OF PRIMARY INTEREST 6. GIDEP APPLICABLE				6. GIDEP APPLICABLE	
		DGLEPM / DCSEM 12-5 (TA)			
7. APPL	ICATION / INTERR	ELATIONSHIP			
CDRL IL	-515				
8. ORI0	GINATOR		9. APPLICABLE FORM	15	
DCSEM	12-5				
10. PRE	PARATION INSTRU	JCTIONS			
10.1	FORMAT				
10.1.1	The Maintenance options as selected	Instructions mu ed by the DND II	ust be delivered in acco _SM:	ordance with one of the following	
	<ul> <li>a. Option 1: Existing bilingual Canadian English and Canadian French commercial Op Man in Contractor format; or</li> <li>b. Option 2: Initial submission in existing commercial and foreign government unilingual Canadian English Op Man in conformance with C-01-100-100/AG-005 and final submission in bilingual Canadian English and Canadian French; or</li> <li>c. Option 3: Newly written bilingual Canadian English and Canadian English and Prepared in conformance with C-01-100/AG-006.</li> </ul>				
10.1.2	10.1.2 The Op Man must be prepared and submitted in electronic format using Microsoft Word to allow DND to review, edit, and manipulate.				
10.1.3	10.1.3 The Initial submission must be unilingual Canadian English and the final submission must be bilingual (Canadian English and Canadian French).				
10.1.4	10.1.4 Two hard covers (front and back) will form part of the Op Man:				
	<ul> <li>a. The top (title) page of the Op Man must represent the cover (top) page of the Canadian English and Canadian French versions of the Instructions.</li> <li>b. The Canadian English and Canadian French cover sheets must bear the following:</li> <li>c. DND document configuration number (to be provided by DND) on the top outer corner;</li> <li>d. Picture of the applicable equipment;</li> <li>e. Document title;</li> <li>f. System name and nomenclature (if applicable);</li> <li>g. NSN;</li> <li>h. Version Date (date format as yyyy/mm/dd); and</li> <li>i. OPI: DCSEM 12-5</li> </ul>				
10.1.5	Figures and tables must be placed immediately next to the referring text descriptions.				

- 10.1.6 Figures and tables must be identified by the document section followed by the figure sequence number and the description text (e.g. Figure 1-5 GPS Unit).
- 10.1.7 All photographs must be in colour.
- 10.1.8 Document page numbering must list the section and page (e.g. 1-1, 2-34)
- 10.1.9 All "DANGER", "WARNING" and "CAUTION" text contained in the body of the manual must be summarized at the beginning of the manual.
- 10.1.10 "DANGER", "WARNING", "CAUTION" and "NOTES" headings must be capitalized, in bold, placed in the middle of the page with boxed with lines or dots above and below the label. Applicable text will be placed immediately below the heading.
- 10.2 <u>CONTENT</u>
- 10.2.1 The Op Man must cover all issues associated with the operation, care and maintenance, storage as well as personnel and equipment safety of the ADIS. As a minimum, the Op Man must address the following:
  - a. Brief description of system contents, insert pictures where possible with a table and itemized listing of all contents cross-referenced with the photo contents. Each itemized item shall then be described at a high level and technical description;
  - b. Data summary (e.g. specifications for the system and replaceable assemblies or subassemblies (if applicable))
  - c. Equipment set-up and mounting procedures;
  - d. Description of controls and instruments;
  - e. Pre-use testing or inspection;
  - f. Operating procedures and equipment specific precautions;
  - g. Operator maintenance, cleaning and care, including operator preventive maintenance (including removal and installation of parts);
  - h. Consumable replacement;
  - i. Basic diagnosis and/or fault finding;
  - j. Storage;
  - k. Safety, including personnel and equipment;
  - I. Hazardous material issues associated with the operation and care of the equipment, including the required procedures for handling and disposing of such materials;
  - m. Tools used for Operator maintenance (if any);
  - n. Weight and Measures chart;
  - o. Any post shutdown actions or precautions (closing down drills);
  - p. Operating under unusual conditions;
  - q. Emergency Operating Procedures;
  - r. Operation of Ancillary Equipment;
  - s. Applicable Environmental Health and Safety (EHS) warnings and instructions in direct relation of EHS risks presented in the contents;
  - t. Any other information recommended by the Contractor and agreed upon by DND.

10.2.2 The Op Man must be organized in the following manner:

10.2.2.1 The initial front sheets must contain:

a.	Summation of all DANGER text contained in the document;						
b.	Summation of all WARNING text contained in the document;						
с.	Summation of all CAUTION text contained in the document; and						
d.	"Safety Data" table containing a summation of all safety related issues						
e.	Table of Contents						
f.	List of Figures						
g.	List of Tables						
h.	How To Use This Manual (general description of the manual organization etc.)						
i.	Chapter 1 General Information (equipment name and model numbers, purpose of						
	equipment, manufacturer, warranty information, nomenclature cross reference table (if						
	required), list of abbreviations and picture or figure of the ADIS.						
j.	Chapter 2 Equipment Description (system description)						
k.	General Characteristics (weight, dimensions, size, performance etc.						
١.	Description of Kit Contents (insert picture of ADIS with a table and itemized listing of all						
	system contents cross-referenced with the photo contents. Each itemized item must then						
	be described at a high level.						
m.	Chapter 3 Operating Instructions (Provide operating instructions for the various equipment						
	comprising the ADIS. Include tables showing operating modes vis-à-vis applicable						
	equipment settings and remarks. Figures or photos must be included to aid in operation						
	description whenever possible.						
n.	Chapter 4 Equipment Set-Up and Interconnection Procedures (detail how equipment is to						
	be assembled/mounted for use for all configurations. Figures or photos must be included to						
	aid in mounting procedure description whenever possible.						
0.	Chapter 5 Troubleshooting Procedures						
р.	Chapter 6 Operator Maintenance and Cleaning						
q.	Removal and Installation of Parts						
r.	Preventive maintenance actions and frequency						
S.	Appendix A Operator Repair Parts and Special Tools List (include photos of equipment with						
	their associated spare parts including tables with the following column headings: Item No.,						
	NSN, Cage Code, Part No., Description and Useable on Code, Quantity)						
t.	Index						
10.2.2.2	The cover page of the publication shall indicate which controlled goods classification						
	applies:						
2	Peviewed/Confirmed Controlled technical data						
a. h	Controlled Technical Data Identified as Operations Instructions						
о. С	Unreviewed Technical Data						
d.	Reviewed/Confirmed "not" Controlled Technical Data						
с. е.	and apply the appropriate marking ("Reviewed/Confirmed "not" Controlled Technical Data"						
	shown below) provided by the TA						
	NOTICE						
	Inis documentation has been reviewed by the technical						
	authority and does not contain controlled goods.						
	AVIS						
Cette documentation a été révisée par l'autorité technique et ne contient pas de marchandises contrôlées.

10.2.2.3 The publication shall include the following text in the Foreword:

"DND is granted the irrevocable right to use, copy, reproduce, and amend the Technical Publications provided by [CONTRACTOR].

On accorde au MDN le droit irrévocable d'employer, copier, reproduire, et modifier les publications techniques fournies par [ENTREPRENEUR]."

DATA ITEM DESCRIPTION DND Form 1409				ND Form 1409	
1. TITLE			2. IDENTIFICATION NUMBER		
	First Line Mair	ntenance Manua	al (Maint Man)	IL-516	
3. DESC	CRIPTION				
The l	The Maint Man describes all first line maintenance tasks and procedures for all repairable equipmen contained in the ADIS.				
4. APPI	ROVAL DATE	5. OFFICE OF I	PRIMARY INTEREST	6. GIDEP APPLICABLE	
		DGLEPM / D	CSEM 12-5(TA)		
7. APPI	ICATION / INTERR	ELATIONSHIP			
CDRL II	-516		Γ		
8. ORI0	GINATOR		9. APPLICABLE FORM	ЛS	
DCSEM	12-5				
10. PRE	PARATION INSTRU	ICTIONS			
10.1	FORMAT				
10.1.1	The Maintenance options as selected	Instructions mu d by the DND IL	ust be delivered in acco SM:	ordance with one of the following	
	<ul> <li>a. Option 1: Existing bilingual Canadian English and Canadian French commercial Maintenar Instructions in Contractor format; or</li> <li>b. Option 2: Initial submission in existing commercial and foreign government unilingual Canadian English Maintenance Instructions in conformance with C-01-100-100/AG-005 a final submission in bilingual Canadian English and Canadian French; or</li> <li>c. Option 3: Newly written bilingual Canadian English and Canadian French Maintenance Instructions prepared in conformance with C-01-100/AG-006</li> </ul>				
10.1.2	.0.1.2 The Maint Man must be submitted in electronic format using Microsoft Word to allow DND treview, edit, and manipulate.			t using Microsoft Word to allow DND to	
10.1.3	The Initial submis bilingual (Canadia	sion may be uni In English and Ca	lingual Canadian Engli anadian French).	ish and the final submission must be	
10.1.4	Two hard covers	will form part of	the Op Man:		
10.1.5	All Maint Man ph	otographs must	be in color.		
10.1.6	6 The Canadian English and Canadian French cover sheets must bear the following:				
	<ul> <li>a. DND document configuration number (to be provided by DND) on the top right hand corner;</li> <li>b. Picture of the applicable equipment;</li> <li>c. Document title:</li> </ul>				
	d. System name and nomenclature (if applicable);				
	e. NSN;	(data farmatire	uu (mm (dd): aad		
	r. version Date (date format yyyy/mm/dd); and g. OPI: DCSEM 5				

- 10.1.7 All Maint Man sheets must have the DND document configuration number (to be provided by DND) on each page starting with page 1 top outer corner right hand corner and top left corner of page 2.
- 10.1.8 Figures and tables must be placed immediately following the referring text descriptions.
- 10.1.9 Figures and tables must be identified by the document section followed by the figure sequence number and the description text (e.g. Figure 1-5 Lens cap)
- 10.1.10 Document page numbering must list the section and page (e.g. 1-1, 2-34)
- 10.1.11 Maint Man pages must be size 8.5 inches wide x 11 inches long (21.6 cm x 27.9 cm) except where figures (e.g. diagrams) require more space.
- 10.2 <u>CONTENT</u>
- 10.2.1 The Manual shall describe, in detail, all Preventive and Corrective maintenance tasks to be performed by DND personnel as identified in the Maintenance Plan and procedures for the equipment and its associated tools and test equipment.
- 10.2.2 The Maint Man must describe the following as a minimum: Incoming test routines; diagnosis of faults, spare parts removal procedures (including exploded view drawings); re-assembly of equipment; desiccation and/or purging procedures; outgoing tests and calibration requirements and procedures.
- 10.2.3 The Maint Man must identify resources, facilities, spare parts (including quantities), consumables, tools and test equipment, workmanship level, test flow charts and any other technical or procedural details required to properly and successfully complete each task.
- 10.2.4 The Maint Man must contain a complete parts list down to the replaceable First Line replaceable spare parts level and their associated quantities, and with the required reference to the applicable exploded view drawings, diagrams, pictures or images.
- 10.2.5 The Maint Man must contain all necessary drawings, diagrams, pictures, images and information in sufficient details and clarity to properly guide the maintainer during the conduct of each maintenance tasks.
- 10.2.6 The Maint Man must cover all personnel and equipment safety issues associated with the maintenance of the equipment.
- 10.2.7 The Maint Man must cover all hazardous material issues associated with the maintenance of the equipment, including the required procedures for handling and disposing of such materials.
- 10.2.8 The Maint Man must identify all Intellectual Property information applicable to the equipment and supporting data, if applicable.
- 10.2.9 "DANGER" headings must be capitalized, in bold, placed in the middle of the page with boxed or dotted outline bars above and below the label. Applicable warning text will be placed immediately below the heading and must be capitalized and bolded.

- 10.2.10 "WARNING" headings must be capitalized, in bold, placed in the middle of the page with boxed or dotted outline bars above and below the label. Applicable warning text will be placed immediately below the heading and must be capitalized and bolded.
- 10.2.11 "CAUTION" headings must be capitalized, in bold, placed in the middle of the page with a solid bar on both sides of the label. Applicable caution text will be placed immediately below the heading and must be capitalized and bolded.
- 10.2.12 "NOTE" headings must be capitalized, bolded placed in the middle of the page. Applicable note text will be normal size, in bold and placed immediately below the heading.
- 10.2.13 Danger, Warning, Caution and notes must precede the applicable text or action to which they refer.
- 10.2.14 The Maint Man must be organized in the following manner:
- 10.2.14.1 The initial front sheets must contain :
  - a. Summation of all DANGER text contained in the document;
  - b. Summation of all WARNING text contained in the document;
  - c. Summation of all CAUTION text contained in the document; and
  - d. "Safety Data" table containing a summation of all safety related issues
  - e. Table of Contents
  - f. List of Figures
  - g. List of Tables
  - h. Chapter 1 Introduction
  - i. General (provide a high level description of the ADIS)
  - j. Warranty Information
  - k. Equipment Characteristics, Capabilities and Features (including applicable Dangers, Warnings and Cautions)
  - I. Location and Description of Major Components (including equipment breakdown figures and diagrams)
  - m. ADIS Configuration (description including a system breakdown diagram)
  - n. Equipment Data (tabular form if possible)
  - o. Mechanical Functions
  - p. Optical Functions
  - q. Electrical Functions
  - r. Chapter 2 First Line Maintenance Instructions
  - s. General
  - t. **Applicable Documents** (list the applicable equipment Operators Instructions as well as equipment specific documents to be supplied by the Contractor. In addition, list the following DND documents:
    - i. C-66-010-010-001/VP-000, Optical Fire Control Instruments Care, Preservation and Storage of Instruments
    - ii. C-66-010-002/VC-001, Refinishing of Electro-Mechanical Equipment
    - iii. C-66-010-003/MN-000, Cleaning Mechanical Components of Instruments
    - iv. C-66-010-007/MN-001, Cleaning of Optical Elements
    - v. C-66-020-001/NC-000, Inspection Procedures for Electro-Mechanical equipment

u.	Apparatus and Tools (list in tabular form with the following column headings: Item No.,
	National Stock No., Description, Part No., and Quantity)
۷.	Repair Parts (brief description and reference to Chapter 5 which will contain all repair parts
	data)
w.	Site and Shelter Requirements
х.	Inspection and Repair Techniques
у.	Service Upon Receipt of Material
Ζ.	Removal and Installation of Components (details removal and installation procedures for
	each first line part (including applicable figures and diagrams). Each line part task must
	have its own procedure. Procedures must be subdivided into two (2) headings, Disassembly
	and Assembly)
aa.	Tests and Adjustments (details any test and adjustment required for each piece of
	equipment to ensure serviceability e.g. desiccation))
bb.	Serviceability Check (describes procedures to be used to verify serviceability of repaired
	item in tabular form. Table must contain the following columns: Item No., Item to
	Check/Service, Procedure, Not Fully Mission Capable if, Corrective Action)
CC.	<b>Troubleshooting</b> (describes procedures to be used to isolate possible malfunctions of the
	equipment in tabular form. The table must contain the following columns: Item No.,
	Problem, Probable Cause, Corrective Action)
dd.	Packing (special packing instructions if required)
ee.	Preventive maintenance actions and frequency
Π.	Chapter 3 Decontamination
gg.	Equipment
nn.	Procedures Chanten 4. Danain Darta and Chaniel Table List
II. 	Chapter 4 Repair Parts and Special Tools List
JJ.	<b>General</b> identify figures and tables applicable to each piece of equipment to be repaired. Include the following:
kk.	Figures of each repairable equipment. The figures must include an itemized list of the main
	equipment replaceable components with corresponding numbered arrows pointing to the
	components on the figure
١١.	Tables listing details of the components. (The tables must contain the following columns:
	Item No., National Stock No., Cage Code, Part Number, DMC, Description, Quantity)
mm	n. Alphabetical Index
10.2.14.2	The cover page of the publication shall indicate which controlled goods classification
	applies:
a.	Reviewed/Confirmed Controlled technical data
b.	Controlled Technical Data Identified as Operations Instructions
с.	Unreviewed Technical Data
d.	Reviewed/Confirmed "not" Controlled Technical Data
e.	and apply the appropriate marking (" <u>Reviewed/Confirmed "not" Controlled Technical Data</u> "
	shown below) provided by the TA.

## NOTICE

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DATA I	ATA ITEM DESCRIPTION DND Form 1409				
1. TITLE			2. IDENTIFICATION NUMBER		
		User Guide		IL-517	
3. DESC	CRIPTION				
The AD guide ir mounti	The ADIS User Guide is a bilingual (Canadian English/Canadian French) brief, complete and compact guide in the form of an aide-mémoire to be used after initial training, describing and illustrating the mounting, set-up and high level operation of the equipment.				
4. APPF	ROVAL DATE	5. OFFICE OF P	RIMARY INTEREST	6. GIDEP APPLICABLE	
		DGLEPM / DO	CSEM 12-5 (TA)		
7. APPL CDRL IL	ICATION / INTERRI 517	ELATIONSHIP			
8. ORIG	GINATOR		9. APPLICABLE FORM	ЛS	
DCSE	EM 12-5				
10.	PREPARATION INS	STRUCTIONS			
10.1	FORMAT				
10.1.1	The User Guide m to the equipment	ust be compact	such that it can be st	ored with the equipment or be attached	
10.1.2	2 The User Guide must be submitted in electronic format using Microsoft Word to allow DND to review, edit, and manipulate.				
10.1.3	Initial submission may be unilingual Canadian English. The Final submission shall be one document with Canadian English and Canadian French texts on side-to-side facing pages bearing its own DND supplied document configuration number e.g. C-XX-XXX-000/JS-001				
10.1.4	The User Guide m	ust be weather	proof and durable me	dia, legible in low-light conditions.	
10.1.5	5 The User Guide must conform to C-01-100-100/AG-005, Acceptance of Commercial and Foreign Government Publications as Adopted Publications, or if no commercial publication exists C-01- 100-100/AG-006 Writing, Format and Production of Technical Publications.				
10.1.6	All photographs must be in colour.				
10.1.7	The User Guide must contain information in condensed format.				
10.1.8	The User Guide must be produced on a sturdy waterproof plasticized type white paper product with good strength, tear and soil resistant characteristics capable of withstanding high humidity, dirt and grease.				
10.1.9	The user guide matter to -20ºC).	ust be capable o	f withstanding a wide	e range of ambient temperatures (+30ºC	

# 10.2 <u>CONTENT</u>

- 10.2.1 The User Guide must summarize, through text and illustrations, equipment set-up, operations safety and basic servicing. Instructions given in the User Guide, while presented differently, must be consistent with the instructions provided in the Operator Instructions (DID IL-515).
- 10.2.2 The User Guide must contain information required to perform daily inspections.
- 10.2.3 The User Guide must identify key safety and handling precautions.

	DATA ITEM DESCRIPTION				DND Form 1409
1. TITLE			2.	IDENTIFICATION NUMBER	
	ADIS K	it List			IL-518
3. DES	CRIPTION/PURPOSE				
The AD	DIS Kit List identifies iten	ns in the A	DIS kit as well as loc	atic	on in transit cases.
4. APP	ROVAL DATE	5. OFFIC INTER DGLEPM	E OF PRIMARY EST / DCSEM 12-5 (TA)		6. GIDEP APPLICABLE
7. APP CDRL II	LICATION/INTERRELATIO	ONSHIP	-		
8. ORIO DCSEN	GINATOR 1 12-5		9. APPLICABLE FOR	MS	
10. PRI	EPARATION INSTRUCTIO	)NS			
10.1	FORMAT				
10.1.1	ADIS kit list must be pr Production of Technic	repared in al Publicat	accordance with C-( tions <u>.</u>	01-1	100-100/AG-006, Writing, Format and
10.1.2	The ADIS Kit List must laminated folded shee	be a weat t, etc.	herproof concise gu	ide,	such as laminated single card or small
10.1.3	The ADIS Kit List must	be bilingu	al Canadian English	and	Canadian French.
10.1.4	The ADIS Kit List must	use colou	r pictorials or drawir	ngs t	to identify item location in transit cases.
10.2	<u>CONTENT</u>				
10.2.1	.2.1 The ADIS Kit List must list the contents of the System and map the system component connectivity when unpacked, and show their system component layout when fully packed for transport.				id map the system component mponent layout when fully packed for
10.2.2	2 Data to be included are:				
	<ul> <li>f. Item Number;</li> <li>g. Item name;</li> <li>h. Part number; and</li> <li>i. Quantity.</li> </ul>				
10.2.3	Kit list must include G	FE.			

DATA I	TEM DESCRIPTION		D	ND Form 1409	
1. TITLE			2. IDENTIFICATION NUMBER		
	Training Nee	ds Analysis (TN	A) Report	IL-520	
3. DESCRIPTION The Training Needs Analysis (TNA) is used to determine the training gap when updating capabilities through a project or new training requirements when new capabilities are provided by a project. T TNA should identify the capability and what training is required, including prerequisites, objectives, training times, and resources. The outcome of the TNA is a report which provides a full analysis of training and training support requirements as a result of the introduction of the new or changed capability.					
4. APP	ROVAL DATE	5. OFFICE OF P		6. GIDEP APPLICABLE	
7 4 5 5		DGLEPM / D	CSEM 12-5 (TA)		
CDRL I	LICATION / INTERRI	ELATIONSHIP			
8. ORIC	GINATOR		9. APPLICABLE FORM	٨S	
DCS	EM 12-5				
10.	PREPARATION INS	STRUCTIONS			
10.1	REFERENCE DOCL	<u>JMENTS</u>			
	<ul> <li>j. A-P9-050-000/PT-002, Volume 2, CFITES – Needs Assessment;</li> <li>k. A-P9-050-000/PT-003, Volume 3, CFITES – Analysis of Instructional Requirements;</li> <li>I. A-P9-050-000/PT-004, Volume 4, CFITES – Design of Instructional Programmes;</li> <li>m. Latest revised Operator Manual; and,</li> <li>n. Latest revised First Line Maintenance Manual.</li> </ul>				
10.2	FORMAT				
10.2.1	The TNA Report n allow DND to revi	nust be prepare ew, edit, and m	d and submitted in ele anipulate.	ectronic format using Microsoft Office to	
10.2.2	The TNA must be	revision contro	lled		
10.3	CONTENT				
10.3.1	1 The TNA must be developed in accordance with Canadian Forces Individual Training and Education System (CFITES),				
10.3.2	2 The TNA must integrate input from all Subcontractors responsible for providing input to the training program and clearly shows how the training gaps or conflicts identified will be addressed.				
10.3.3	3 The TNA must include but is not limited to the following aspects/headings:				
	<ul> <li>a. Executive summary;</li> <li>b. Background – of the project (the TNA should be able to be understood if read alone);</li> <li>c. Aim – of the analysis:</li> </ul>				

- d. Limitations and constraints- that affect the analysis;
- e. Assumptions that affect the results of how the gap will be bridged;
- f. Methodology how the data was collected (i.e. interviews, document reviews, surveys) in order to reach the conclusion;
- g. Findings an identification of any performance gap (Based on identified need or deficiency, current level of training vs desired level of training, identifies the training gap).
- h. Training requirements a description of how the performance gaps will be addressed, defining the training requirements to address the following based on the target population analysis provided by DND:
- i. Tasks requirements to include levels of proficiency;
- j. skill requirements;
- k. knowledge requirements; and
- I. attitude requirements.
- m. Resources;
- n. Training strategy a proposed list of training programs/courses including description;
- o. A proposed list of required Initial Cadre Training serials;
- p. Safety Measures;
- q. Options analysis a list of various options to meet the needs of the learners;
- r. Recommendations/Conclusions/Implementation plan the selection of the most efficient and effective option and a conclusion of the analysis that indicates the way forward; and
- s. A notes section that contains any general information that aids in the understanding of the document.

#### 10.3.4 A recommended outline for the TNA Report is as follows:

- 1 Executive summary;
- 2 Background of the project (the TNA should be able to be understood if read alone);
- 3 Aim of the analysis;
- 4 Limitations and constraints- that affect the analysis;
- 5 Assumptions that affect the results of how the gap will be bridged;
- 6 Approach and Methodology Analysis
  - 6.1 Resource Research and Data Collection Methodology;
  - 6.2 Training Target Population;
  - 6.3 Prerequisites by course;
  - 6.4 ICT, Training requirements;
  - 6.5 Detailed task lists by course; and
  - 6.6 Difficulty/Importance / Frequency (DIF) Analysis for Train/No Train decisions.
- 7 Approach and Methodology Design
  - 7.1 Instructional Development Plan;

7.1.1 Method/Media Analysis overview for each module including opportunities to employ the following (but not limited to these examples) 7.1.1.1 Interactive multimedia Instruction (IMI) levels; 7.1.1.2 Mobile Learning Opportunities; 7.1.1.2.1. Electronic Performance Support Systems (EPSS); 7.1.1.2.2. Intelligent Tutoring; 7.1.1.2.3. Embedded Training; and 7.1.1.2.4. Synthetic Environment; 7.1.1.3 Instructional Strategy Employed; 7.1.1.3.1. Formal In-house training; 7.1.1.3.2. **On-the-Job Training;** 7.1.1.3.3. Trainers; 7.1.1.3.4. Distance/Distributed training; 7.1.1.3.5. Other strategies as identified; and Interaction between courseware and training devices; 7.1.1.3.6. 7.1.1.4 DLN usage: Courseware; 7.1.1.5 Training device usage Approach and Methodology – Conduct 8 8.1 Infrastructure requirements; 8.2 Estimate of resources required to deliver training; 8.3 Concept of training; 8.4 Anticipated schedule of training; 8.5 Student assessment (i.e. a description of methods used to verify that training requirements were met) 8.5.1 Formative 8.5.2 Summative. 8.6 Initial Cadre Training (ICT) 8.6.1 Concept of operations for ICT; and 8.6.2 Overview of plan for ICT. 8.7 Steady-State Training (SST) 8.7.1 Overview of course content

8.7.2 Overview of plan for SST.

DATA ITEM DESCRIPTION	D	ND Form 1409			
1. TITLE		2. IDENTIFICATION NUMBER			
Tr	aining Plan (TP)	IL-521			
3. DESCRIPTION The Training Plan (TP) is a course content/lesson guidance document used by the CAF to describe an instructional program which achieves, at optimal cost, the Performance Objectives which were defined in the Qualification Standard (QS).					
4. APPROVAL DATE	5. OFFICE OF PRIMARY INTEREST	6. GIDEP APPLICABLE			
7. APPLICATION / INTERR CDRL IL-521	ELATIONSHIP				
8. ORIGINATOR	9. APPLICABLE FOR	MS			
DCSEM 12-5					
10. PREPARATION IN	STRUCTIONS				
10.1 <u>REFERENCE DOC</u>	<u>UMENTS</u>				
t. A-P9-050-000 u. A-P9-050-000 Instructional v. A-P9-050-000 w. DAOD 5039-6 x. Latest revised y. Latest revised	<ul> <li>t. A-P9-050-000/PT-004, Volume 4, CFITES - Design of Instructional Programmes;</li> <li>u. A-P9-050-000/PT-004 (Interim), Volume 4, CFITES - Interim Guidance – Design of Instructional Programmes;</li> <li>v. A-P9-050-000/PT-007, Volume 7, CFITES - Evaluation of Learners;</li> <li>w. DAOD 5039-6 Delivery of training and education in both official languages;</li> <li>x. Latest revised Operator Manual; and,</li> <li>v. Latest revised First Line Maintenance Manual.</li> </ul>				
10.2 <u>FORMAT</u>					
10.2.1 The TP must be p Electronic copies Word, to allow D	1 The TP must be prepared in the format adhering to the provided template and to CFITES. Electronic copies of individual TP must be delivered in a format compatible with Microsoft Word, to allow DND to review, edit and manipulate.				
10.2.2 The TP must be r	2 The TP must be revision controlled				
10.3 <u>CONTENT</u>	CONTENT				
10.3.1 A TP must be dev report, QS and th	A TP must be developed in accordance with CFITES and by reconciling the approved TNA report, QS and the latest revised editions of the Operator and First Line Maintenance Manuals.				
10.3.2 The TP must be n Objectives must the maintainer q	The TP must be modular with an indication of what Performance Objectives and Enabling Objectives must be achieved to obtain the operator qualification, and which are required for the maintainer qualification.				
10.3.3 The TP must inclu	ude but is not limited to the following	aspects:			
a. Course objec	a. Course objectives;				

- b. Training objectives referred in CFITES as Performance Objectives (PO). PO must include performance statement, conditions statement and standard statement;
- c. Course content and structure: a detailed plan of the subject matter, indicating performance objectives, enabling objectives, teaching points and their interrelationships in a scalar diagram;
- d. Lesson specifications to include the performance, conditions and standard of the enabling objective, supporting teaching points, references, learning activities (method, media and environment), estimated timings, assessment directions and any remarks that further clarify the design intent;
- e. An analysis of the requirement;
- f. List of equipment or material required from DND / CAF;
- g. Training Organization and Instructor Resources;
- h. Course titles;
- i. Course durations;
- j. Course timetable;
- k. Language of instruction for each course;
- I. Minimum and maximum numbers of students per course;
- m. Instructor, including details of instructor's relevant experience, for each course;
- n. Prerequisite student training/experience for each course;
- o. Environmental considerations;
- p. Related documents;
- q. Training Limitations;
- r. Training method for each course;
- s. Training material and training aids used for each course;
- t. Assessment Plan (including criteria and process);
- u. Main references table;
- v. Student Course Evaluation ("Course Critique"); and
- w. Instructor Self Evaluation.
- 10.3.4 The following topics must be addressed in the content of the operator course as a minimum:
  - a. Overview of System theory;
  - b. Equipment overview;
  - c. Equipment set-up;
  - d. Pre-use testing/inspection;
  - e. Use and operation;
  - f. User maintenance and care;
  - g. Consumable replacement;
  - h. Basic diagnosis and/or fault finding;
  - i. Storage;
  - j. Safety, including personnel and equipment; and
  - k. Hazardous material issues, including handling and disposal.
- 10.3.5 The following topics must be addressed in the content of the first line Maintenance course as a minimum:
  - a. Inspection and testing;

- b. Troubleshooting and fault finding;
- c. Preventive maintenance procedures;
- d. Corrective maintenance procedures;
- e. Maintenance resources, facilities, assemblies/sub-assemblies, consumables, tools and test equipment required;
- f. Packaging, Handling, Storage and Transportation (PHST);
- g. Personnel and equipment safety issues; and,
- h. Controlled Goods and Intellectual Property issues for the equipment and its associated data, including disposal.
- 10.3.6 The TP must include in the remarks section of each EO, any information which would assist the instructor with the material.
- 10.3.7 The TP must have a detailed daily schedule of training events broken down into fifty (50) minutes periods. The schedule must include a minimum of four non-training related fifty (50) minutes periods per week that the students will use for fitness training and administration.
- 10.3.8 The TP must have a detailed assessment plan outlining all Enabling Checks (EC) and Performance Checks (PC).

DATA I	DATA ITEM DESCRIPTION DND Form 1409					
1. TITLE			2. IDENTIFICATION NUMBER			
		Courseware		IL-522		
3. DESC	CRIPTION					
The Courseware contains all the material (including training aids and job aids) used for training CAF personnel in both the operator and maintenance functions of the system. The Courseware will be used for ICT and updated for SST.						
4. APPI	ROVAL DATE	5. OFFICE OF P	RIMARY INTEREST	6. GIDEP APPLICABLE		
		DGLEPM / D	CSEM 12-5 (TA)			
7. APPI CDRL II	LICATION / INTERRI 522	ELATIONSHIP				
8. ORIG	GINATOR		9. APPLICABLE FORM	vis		
DCSI	EM 12-5					
10. PRI	EPARATION INSTRU	JCTIONS				
10.1	REFERENCE DOCL	<u>JMENTS</u>				
	<ul> <li>a. A-P9-050-000/PT-005, Volume 5, CFITES - Development of Instructional Materials;</li> <li>b. A-P9-050-000/PT-007, Volume 7, CFITES - Evaluation of Learners;</li> <li>c. DAOD 5039-6, Delivery of Training and Education in Both Official Languages;</li> <li>d. SCORM Requirements for AFIILE Version 1.0;</li> <li>e. DLN – Course Development Guide.</li> <li>f. Latest revised Operator Manual; and,</li> <li>g. Latest revised Eirst Line Maintenance Manual.</li> </ul>					
10.2	FORMAT					
10.2.1	The Courseware will be prepared in the Contractor's format and approved by DND. The Contractor must implement any DND recommended format changes.					
10.2.2	2 Courseware must be prepared and submitted in electronic format using Microsoft Office to allow DND to review, edit, and manipulate.					
10.2.3	3 The Courseware must be bilingual in Canadian English and Canadian French prior to ICT2.					
10.2.4	The Courseware must be revision controlled.					
10.3	CONTENT					
10.3.1	The Courseware must be complete with all content required to train students to achieve the learning outcomes identified in the training plan;					
10.3.2	Courseware is the material required for conducting instruction/learning and assessment events (including training and job aids). The Courseware must comply with the requirements of the			struction/learning and assessment events t comply with the requirements of the		

	CCD and be approved by DND. All electronic content must be Sharable Content Object Reference Model (SCORM) compliant. The Courseware includes but is not limited to:				
10.3.3	.3 Master Lesson plan. The Lesson Plan to include as a minimum:				
10.3.3	Mas a. b. c. d. e. f. g. h. i. j. k.	ster Lesson plan. The Lesson Plan to include as a minimum: Version and amendment details for version control; Reference(s) needed to deliver the material; Lesson Objective; List of equipment; or material required for delivery; Instructor human resource requirements (i.e. assistant instructors); List of training material requiring to be handed out; Introduction, body, conclusion; and Specific sequence of events for the lessons explaining actions of the instructor (s) and learners. Incorporate questions, confirmation questions, individual/group activities for training and assessment; Computer Assisted Instructional modules, including learning objects (SCORM compliant) if applicable; Reference materials to included operators and maintenance manuals; Student handouts;			
	т. m.	Student study materials; Student evaluation tool (course critique):			
	n.	Instructor course evaluation "critique" tool;			
	0.	Training aids and job aids;			
	p.	Training scenario scripts - if applicable;			
	q.	Enabling Checks (EC) including instructor and learner instructions on how to conduct the assessments and any assessment tools (i.e. marking guide, correction guide, and checklist); and			
	r.	Performance Checks (PC) including instructor and learner instructions on how to conduct the assessments and any assessment tools (i.e. marking guide, correction guide, and checklist).			

	D	ATA ITEM DE	SCRIPTION		DND Form 1409
1. TITLE				2.	IDENTIFICATION NUMBER
	Course Ev	aluation Rep	ort		IL-524
3. DESC	CRIPTION/PURPOSE			•	
Course result o Report to thos	Evaluation is design of the evaluation of summarizes the de se issues.	ned to docum identified ob livery of each	nent the contractor's ject and subjective d n serial and identifies	s cor lata s issu	ntinuous improvement of training as a sources. The Course Evaluation ues in course delivery with solutions
4. APPI	ROVAL DATE	5. OFFICE O DGLEPM /	F PRIMARY INTEREST / DCSEM 12-512 (TA)	Г )	6. GIDEP APPLICABLE
7. APPI CDRL II	LICATION/INTERREL L-524	ATIONSHIP			
8. ORIO DCSEN	GINATOR 1 12-512		9. APPLICABLE FOR	RMS	
10. PR	EPARATION INSTRU	CTIONS	•		
10.1	REFERENCE DOCU	<u>MENTS</u>			
	a. A-P9-050-000, b. A-P9-050-000,	/PT-011 Voluı /PT-Z11, Volu	me 11 CFITES – Evalu me 11(1) CFITES – Ev	uatic valua	on of Instructional Programmes, ation and Validation Techniques.
10.2	FORMAT				
10.2.1	10.2.1 The Course Evaluation Report must be prepared in the contractor's format to include the items cited under the "Content" section of this document. It must be submitted in electronic format using Microsoft Suite to allow DND to review, edit, and manipulate.				contractor's format to include the ent. It must be submitted in electronic dit, and manipulate.
10.3	<u>CONTENT</u>				
10.3.1	10.3.1 <u>Collect data</u> : The contractor will collect data from each ICT course serial. This data must come from the following sources:				
	<ul> <li>a. Observation of training:</li> <li>b. Instructor Monitoring;</li> <li>c. Instructor Feedback;</li> <li>d. Trainee course critiques;</li> <li>e. Trainee Assessment results; and</li> <li>f. Input from DND.</li> </ul>				
10.3.2	10.3.2 <u>Analyze data</u> : The contractor must analyze and trend the data by ICT course from sources at para 10.3.1 in order to identify improvement opportunities.				
10.3.3	The Course Evalua	ition Report n	nust contain at a mir	nimu	um:
	a. Part 1				

- i. Date;
- ii. Location of training;
- iii. POs and EOs covered during training;
- iv. Number of both successful and unsuccessful attendees; and
- v. List of instructional staff.
- b. Part 2
  - i. Identification of portions of the training that were deemed very successful;
  - ii. Identification of problems that arose during the training;
  - iii. Recommendations to improve the training along with the level of effort required for the correction. Each recommendation must be supported by an example encountered during ICT (i.e. the instructor ratios were too small; the number of students on a course was too big; or the initial teaching points could best be taught prior to arrival on the course) or include source data (i.e. course critique comment); and
  - iv. Identification of timelines to correct the issues.

10.3.4 Implement Change:

- 10.3.4.1 Approved changes are implemented by the contractor prior to the next ICT serial or final submission of the CCD and Courseware.
- 10.3.4.2 Approved changes must be implemented in the Qualification Standard (QS), Training Plan (TP) and all Courseware.
- 10.3.4.3 A Course Evaluation Report must be delivered after each ICT course.

DATA I	DATA ITEM DESCRIPTION DND Form 1409				
1. TITLE			2. IDENTIFICATION NUMBER		
	Training M	lanagement Pla	n (TMP)	IL-525	
3. DESCRIPTION The Training Management Plan (TMP) describes the integrated approach and methodology the Contracto will use for the analysis, design, development and implementation of the Training Program.					
4. APPI	ROVAL DATE	5. OFFICE OF P DGLEPM / D	RIMARY INTEREST CSEM 12-5 (TA)	6. GIDEP APPLICABLE	
7. APPI CDRL II	LICATION / INTERRI L-525	ELATIONSHIP			
8. ORIO DCSI	GINATOR EM 12-5		9. APPLICABLE FORM	MS	
10.	PREPARATION INS	STRUCTIONS			
10.1	REFERENCE DOCU	JMENTS			
	<ul> <li>a. A-P9-050-000/PT-001, Volume 1, CFITES - Introduction/Description;</li> <li>b. A-P9-050-000/PT-Z01, Volume 1(1), CFITES - Supplement – Glossary;</li> <li>c. A-P9-050-000/PT-002, Volume 2, CFITES - Needs Assessment;</li> <li>d. A-P9-050-000/PT-003, Volume 3, CFITES - Analysis of Instructional Requirements;</li> <li>e. A-P9-050-000/PT-004, Volume 4, CFITES - Design of Instructional Programmes;</li> <li>f. A-P9-050-000/PT-005, Volume 5, CFITES - Development of Instructional Materials;</li> <li>g. A-P9-050-000/PT-006, Volume 6, CFITES - Conduct of Instructional Programmes;</li> <li>h. A-P9-050-000/PT-007, Volume 7, CFITES - Evaluation of Learners;</li> </ul>				
10.2	FORMAT				
10.2.1	1 The TMP must be submitted in electronic format using Microsoft Office to allow DND to review, edit, and manipulate.				
10.3	<u>CONTENT</u>				
10.3.1	.0.3.1 The TMP must describe the integrated approach and methodology the Contractor will use for the analysis, design, development, and implementation of the Training Program as well as the support and transition to the in-service life of the delivered capability.				
10.3.2	2 The TMP must include the following:				
	<ul> <li>a. Overview of the Training Program, including proposed training and training support activities to meet all of the training requirements identified by and in response to the SOW;</li> <li>b. Description of assumptions, priorities and constraints on which the training program is based;</li> </ul>			osed training and training support dentified by and in response to the SOW; nts on which the training program is	



	DATA ITEM DESCRIPTION DND Form 14				
1. TITLE				2. IDENTIFICATION NUMBER	
	Logistical Breakdown Structure (LBS) IL-526				
3. DESC	CRIPTION				
The Log a top d	gistical Breakdown St own graphical repres	ructure (LBS) de sentation.	efines the complete sy	vstem with its Configuration Items (CI) in	
4. APPI	ROVAL DATE	5. OFFICE OF F	PRIMARY INTEREST	6. GIDEP APPLICABLE	
		DGLEPM /	DCSEM 12-5 (TA)		
7. APPI CDRL II	LICATION / INTERREL	ATIONSHIP			
8. ORIO DCSEN	GINATOR I 12-5		9. APPLICABLE FORM	ИS	
10. PR	EPARATION INSTRUC	TIONS			
10.1	FORMAT				
10.1.1	The LBS must be pro	epared and subi	mitted in Microsoft Vi	sio format.	
10.2	<u>CONTENT</u>				
10.2.1	The LBS must define selected First-line S	e the system inc pare Parts Main	luding the selected Sy tenance Items as dete	rstem Configuration Items (CIs) and the ermined in the Maintenance Plan.	
10.2.2	.2 The LBS must be a pictorial hierarchical (top-down) representation of the system decomposition down to the First Line part level, including identification of each item selected as a CI.				
10.2.3	Each item listed in t	he LBS must be	identified with the fol	llowing data:	
	<ul> <li>a. Item Name;</li> <li>b. NSN (if available);</li> <li>c. Manufacturer's Part Number;</li> <li>d. Quantity (if on the same item);</li> <li>e. CAGE Code; and</li> <li>f. Indenture code.</li> </ul>				
10.2.4	.2.4 Identical CIs not on under the same CI must be shown separately and as an indenture under its respective CI.				
10.2.5	0.2.5 The LBS must be supported by top level drawings and parts lists required to verify the complete and current configuration of the equipment in accordance with Provisioning Drawings and Associated Lists DID IL-514.				
10.2.6	6 The LBS must be version controlled (i.e. date of revision).				

- 10.2.7 The LBS contents and data must be consistent with those contained in the approved Provisioning Drawings & Associated Lists see DID IL-514 (where applicable) and Provisioning Parts Breakdown (PPB) see DID IL-510.
- 10.2.8 CIs labels and ID Plates must be shown where applicable (see Figure 5 below).



Figure 5: Sample ADIS Logistical Breakdown Structure (LBS)

		DATA IT	EM DESCRIPTION	DND Form 1409
1. TITL	TITLE			2. IDENTIFICATION NUMBER
	Qualifi	cation Standard	(QS)	IL-528
3. DESC The Qu conduc Quality which t require	CRIPTION ualification Standarc ct, evaluation and va of the instruction h they must be perfor ements and or depa	d (QS) is a formal alidation of IT&E by describing the rmed and the sta rtmental goals.	document used by the programs. The prima tasks the trainee mus indard of the performa	e CAF to guide the design development, ry purpose of the QS is to control the t learn to perform, the conditions under ance needed to attain operational
4. APP	ROVAL DATE	5. OFFICE OF F	PRIMARY INTEREST	6. GIDEP APPLICABLE
		DGLEPM / D	CSEM 12-5 (TA)	
7. APP	LICATION / INTERR	ELATIONSHIP		
8. ORIC	GINATOR		9. APPLICABLE FORM	ЛS
DCS	EM 12-5			
10.	PREPARATION IN	STRUCTIONS		
10.1	REFERENCE DOCU	<u>JMENTS</u>		
	<ul> <li>a. A-P9-050-000/PT-003, Volume 3, CFITES – Analysis of Instructional Requirements;</li> <li>b. A-P9-050-000/PT-003, Volume 3, CFITES – Interim Guidance - Analysis of Instructional Requirements; and</li> <li>c. DAOD 5039-6 Delivery of training and education in both official languages.</li> <li>d. Latest revised Operator Manual; and,</li> <li>e. Latest revised First Line Maintenance Manual.</li> </ul>			
10.2	<u>FORMAT</u>			
10.2.1	2.1 The QS must be prepared in the format adhering to the provided template and to CFITES. Electronic copies of the QS must be delivered in a format compatible with Microsoft Office Suite.			
	<ul> <li>a. Content <ol> <li>A modularized QS must be developed using the provided template by reconciling the approved TNA report.</li> <li>The contractor must determine the Training Management details, particularly planning factors and resource requirements to be considered in the conduct and management of training.</li> <li>The contractor must complete the analysis of instructional requirements IAW CFITES. The outcome of this analysis is the Performance Objectives (POs) and Enabling Objectives (EOs) groups and sequences.</li> <li>The contractor must develop standards which members are to achieve for each PO as statements which are observable and management of CFITES.</li> </ol> </li> </ul>			

		DATA	ITEM DESCRIPTION	DND Form 1409				
1. TITL	E			2. IDENTIFICATION NUMBER				
Safety Data Sheet (Si			DS)	IL-529				
3. DESCRIPTION								
4. APPROVAL DATE 5. OFFIC		5. OFFICE	OF PRIMARY INTEREST	6. GIDEP APPLICABLE				
DGLE		DGLEPM	/ DCSEM 12-5					
7. APPI	LICATION / INTERRELATIO	NSHIP						
This DID contains the format, content and preparation instructions for the data product generated by the specific and discrete task requirements as delineated in the Contract.								
8. ORIGINATOR			9. APPLICABLE FC	DRMS				
DGLEPM / DCSEM 12-5								
10.	PREPARATION INSTRUC	TIONS						
10.1	SOURCE DOCUMENT							
10.1.1	The applicable issue of the cited documents, including their approval dates, and dates of any applicable amendments and revisions shall be as specified in the Contract.							
10.2	PREPARATION INSTRUCTIONS							
10.2.1	SDS shall be prepared for ADIS and any recommended support equipment (e.g. decontamination) that possess or utilize hazardous products.							
10.2.2	A SDS is an information paper containing data relative to a specific product. The SDS must be bilingual (Canadian English/Canadian French). The types of information shown are detailed in the Hazardous Products Act, Controlled Products Regulations. There is no specific format established by law in Canada, however the SDS must, as a minimum, contain the following information:							
	<ul> <li>a. Hazardous Ingredien</li> <li>i. CAS Numbe</li> <li>ii. Ingredient r</li> <li>iii. Ingredient r</li> </ul>	nts: r; name; and percentage.						
	b. Preparation Information:							
	<ul> <li>Name and phone number of person, group or party responsible for producing SDS; and</li> <li>Date of SDS preparation.</li> </ul>							
	c. Product Information:							
	i. Manufacturer's name, address and emergency phone number;							
	manufacturer);							
	iii. Product identifier; and							
	iv. Product use	data.						
	d. Physical Data:							

i. Physical state (gas, liquid, solid); ii. Appearance and odour; iii. Specific gravity, vapour density; iv. Evaporation rate; v. Boiling point; vi. Freezing point; vii. pH; and viii. Coefficient of water/oil distribution. e. Fire or Explosion Hazard: i. Conditions of flammability; ii. Means of Extinction; iii. Flash point and method of determination; iv. Upper and lower explosion limits; v. Auto ignition temperature; vi. Hazardous combustion products; and vii. Explosion data: Sensitivity to static discharge and mechanical impact. f. Reactivity Data: i. Conditions under which the product is chemically unstable; ii. Name of substance or class of substance of which the product is incompatible; iii. Conditions of reactivity; and iv. Hazardous decomposition products. g. Toxicological Properties: i. Route of entry: Skin contact, skin absorption, eye contact, inhalation and ingestion; ii. Effects of acute and chronic exposure to product; iii. Exposure limits (Threshold Limit Values); iv. Irritancy and sensitization of product; v. Carcinogenicity, Teratogenicity and Mutagenicity of product; vi. Reproductive toxicity; and vii. Name of toxicologically synergistic products. h. Preventative Measures: i. Personal protective equipment to be used; ii. Specific engineering controls to be used; iii. Procedures to be followed in case of leak or spill; iv. Waste disposal; v. Handling procedures and equipment; vi. Storage requirements; and vii. Transportation information. First Aid Measures: i. i. Specific first aid measures.

	DATA IT	TEM DESCRIPTION	DND Form 1409					
1. TITLE			2. IDENTIFICATION NUMBER					
Laser Safety	v Data Sheet (LSD	11-530						
3. DESCRIPTION		- 1						
The LSDS must provide all th	e necessary data	required to operate	the laser in a safe manner during					
training and field operations	, and must provid	de all the informatior	required to ensure to safe operation					
during training and field ope	rations.							
4. APPROVAL DATE	5. OFFICE OF PR	RIMARY INTEREST	6. GIDEP APPLICABLE					
	DGLEPM	/ DCSEM 12-5						
7. APPLICATION / INTERRELATIONSHIP								
8. ORIGINATOR		9. APPLICABLE FORMS						
	12 5							
	10113							
10.1 FORMAT								
10.1.1 The LSDS must be in MS Word and as further described in section 10.2.1 below.								
10.2 CONTENT								
10.2.1 The LSDS must contain the following data elements:								
Title: Chemical Information System (Insert Military Designation)								
1 NEN: (Incost ADIS NEN if	lacar is built into	the ADIC If external	and removable, rename to Leser NCN					
<b>1. NSN:</b> (Insert ADIS NSN if laser is built into the ADIS. If external and removable, rename to <b>Laser NSN</b> and insert laser NSN)								
2. OEM Part Number: (Insert OEM P/N)								
3. NDHQ LCMM: (Leave Blank)								
4. Manufacturer: (Insert Manufacturer Name)								
5. System Parameters:								
a. Type: (Insert laser type e.g. gallium arsenide (GaAs) laser diode):								
b. Wavelength: (Insert laser wavelength)								
c. Energy (Q): Insert laser energy at the various operating modes (e.g. aimer, illuminator)								

- d. Pulse duration (t): (insert pulse duration for the various operating modes (e.g. aimer, illuminator)
- e. Emergent beam diameter (a) at the exit aperture: (Insert beam diameter and applicable distances at the various operating modes (e.g. aimer, illuminator)
- f. Beam divergence: Insert beam divergence and tolerance in milirad (mrad) at the various operating modes (e.g. aimer, illuminator)
- g. Pulse repetition rate (PRR): (Insert PRR)

**6. Nominal Ocular Hazard Distance**: (Insert NOHD and any applicable descriptions/explanations. In particular, describe NOHD in Unaided and Aided (with 7x50 binoculars) views as well as the various operating modes (e.g. Aimer and Illuminator) and identify any differences between operating and training modes. Impact on Night Vision Goggles operations should be considered.

7. Nominal Skin Hazard Distance: (insert data for the various operating modes e.g. Training, Tactical)

- 8. Diffuse Reflection Hazard: (Insert data)
- 9. Classification: (State laser classification ratings for the various operating modes)

**10. Suitable Protective Goggles:** (Identify protective goggles required to cover all laser operating modes stating manufacturer and goggle model)

**11. Minimum Goggles Optical Density (O.D.):** (State O.D. for the various laser operating modes and whether a single goggle will cover all requirements)

DATA ITEM DESC			ON	DND Form 1409				
1. TITLE		2. IDENTIFICATION NUMBER						
Configuration Stat	us Accounting F	I	IL-531					
3. DESCRIPTION								
The CSAR must detail the	information req	uired to effectively m	anage Configuratio	on Items (CIs) and				
provide visibility of Config	guration Manage	ement activities, inclu	ding status of devia	ations, waivers and				
engineering changes.	1							
4. APPROVAL DATE	5. OFFICE OF P	RIMARY INTEREST	6. GIDEP APPLICA	\BLE				
	DGLEPN	1 / DCSEM-12						
7. APPLICATION / INTERR	ELATIONSHIP	•						
8. ORIGINATOR		9. APPLICABLE FORMS						
DGLEPM / DCSE	M-12							
10 PREPARATION INSTRUCTIONS								
10.1 FORMAT								
10.1.1 CSAR must be in the Contractor's format.								
10.2 CONTENT	10.2 CONTENT							
10.2.1 The Configuration Status Accounting Report (CSAR) must meet the intent of MIL-STD-3046. The CSARmust detail the information required to effectively manage CIs such as drawings, software, technical publications, etc. and provide visibility of Configuration Management activities, including status of deviations, waivers and engineering changes.								
10.2.2 The CSAR must provide as a minimum identification of each CI including software/firmware if applicable, its document/engineering drawing number and applicable revision/version as well as list all new, outstanding and historical Engineering Change Proposals (ECP), Request for Deviations (RFD), Request for Waivers (RFW), Specification Change Notices (SCN), Notice of Revisions (NOR) and Material Change Notices (MCN), including their status, against each CI. Sample CIs include, but are not limited to:								
Drawings;	Drawings;							
Software/firmware;								
Technical publications;								
Iraining material;								
• Specifications;								
Certifications;								

- Identification Number Registry
- ECP, RFD, RFW, MCN;
- Advisories;
- Etc.

10.2.3 The CSAR must bear version identification (i.e. date or revision).