

DEPARTMENT OF NATIONAL DEFENCE (DND)



**ANNEX A - STATEMENT OF WORK
FOR THE
CC130H HERCULES DESKTOP TRAINER**

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1.0 INTRODUCTION

1.1 Purpose

1.1.1 This Statement of Work (SOW) describes the work to be done and the data to be delivered by the Contractor to design, develop, construct, test, deliver, and install a CC130H Desktop Trainer (DTT).

1.1.2 This SOW defines the requirements for the material and data which the Contractor is to provide to enable maintenance, logistic support, and operation of the DTT in its intended training role.

1.1.3 The data required shall be delivered IAW the Contract Data Requirements List (CDRLs), as defined in the Data Item Descriptions (DIDs). Appendix 1 contains both the CDRLs and the DIDs. This SOW is supported by the Technical Specification (TS), which defines the functional and performance requirements of the DTT and is attached as Appendix 2.

1.2 Background

1.2.1 The DTT System is designed to meet the training needs of the Canadian Forces CC-130H and to facilitate the transfer of knowledge and skills to unqualified aircrew from classroom lectures to a cockpit that provides digital instrumentation and controls.

1.2.2 The system is designed to meet the training requirements of three Military Occupational Code classes: Pilot/Co-Pilot, and Air Combat Systems Officer (ACSO).

1.3 Objectives

1.3.1 The objective is to achieve a continuous flow of training, and well directed focus, through seamless and progressive interaction of the DTT media to effectively and efficiently achieve CC130H performance objectives.

1.4 Scope

1.4.1 The Contractor shall provide the system engineering required for total integration of the DTT System. This work shall include:

1.4.1.1 determination of system, subsystem and equipment detailed performance requirements and interfaces;

1.4.1.2 assurance that the system meets the requirements through reviews of subsystems, component analysis and test results; and

1.4.1.3 system integration - the task of aggregating, interconnecting and checking the hardware, software, and courseware components so as to deliver the specified functionality. .

1.4.2 This SOW contains the following work elements:

1.4.2.1 Project Management (PM);

1.4.2.2 Systems Engineering (SE); and

1.4.2.3 Integrated Logistics Support (ILS).

1.5 Index of Acronyms

ACSO:	Air Combat Systems Officer
ATPs:	Acceptance Test Procedures
AP:	Acceptance Plan
CA:	Contracting Authority
CDR:	Critical Design Review
CDRL:	Contract Data Requirements List
CF	Canadian Forces
CMP:	Configuration Management Plan
DIDs:	Data Item Descriptions
DND:	Department of National Defence
DTT:	Desk Top Trainer
IAW:	In Accordance With
ILS:	Integrated Logistics Support
LP:	Lesson Plan
PDR:	Preliminary Design Review
PM:	Project Management
PRM:	Project Review Meeting
QA:	Quality Assurance
SAR:	Search And Rescue
SDP:	Software Development Plan
SE:	Systems Engineering
SEMP:	Systems Engineering Management Plan
SOW:	Statement of Work
TA:	Technical Authority
TDMP:	Technical Data Management Plan
TIMs:	Technical Interchange Meetings
TS:	Technical Specification
TP:	Training Plan

2.0 APPLICABLE DOCUMENTS

2.1 General

2.1.1 The following documents are applicable to the extent that they are referenced in this SOW. Otherwise, referenced documents shall be considered to be supplemental information.

2.1.2 Unless otherwise specified, the issue or amendment of documents effective for this contract shall be those in effect on the date of contract award.

2.1.3 In the event of a conflict between the text of this SOW and the references cited herein, this SOW shall take precedence.

2.2 List of Applicable Documents

2.2.1 The following documents and standards are listed to help understand the SOW, and may be required to carry out the work:

Table 1.0: Applicable Documents

Code	Title
D-02-006-008/SG-001	Specification for Design Changes, Deviations, and Waivers
C-01-100-100/AG-005	Departmental Adoption of Commercial and Foreign Government Publications
D-01-100-215/SF-000	Preparation of Materiel Change Notices (MCN) For CF Equipment (2002-05-01)
ISO 9001:2008	Quality management systems
ISO/IEC 90003:2004	Software engineering - Guidelines for the application of ISO 9001:2000 to computer software
ISO 10005:2005	Quality management systems -- Guidelines for quality plans
D-01-100-214/SF-000	Specification for Preparation of Provisioning Documentation for CF Equipment
C-12-130-000/MB-001 AVM Change 8	C130H Aircraft Operating Instructions
DTT Technical Specification	October 2012

ACSO SAR TP Version 2.0	Air Combat Systems Officer Training Plan Ver 2
DTT Mission Plans	Desk Top Trainer Mission Plans
FO SAR TP Version 2.0	Search and Rescue (SAR) First Officer Training Plan Ver 2

3.0 PROJECT MANAGEMENT

3.1 General

3.1.1 The Contractor shall provide all aspects of project management necessary for planning, designing, developing, constructing, integrating, testing, delivering, and installing the DTT, as well as for providing the material, services, and data detailed in this SOW.

3.2 Project Schedule

3.2.1 The Contractor shall submit and maintain a project schedule In Accordance With (IAW) CDRL-001/PM-001.

3.3 Progress Reports

3.3.1 The Contractor shall submit progress reports IAW CDRL-002/PM-002.

3.3.2 Progress Reports shall include minutes of all Project Review Meetings (PRMs) and Technical Interchange Meetings (TIMs) held during the reporting period.

3.4 Reviews and Meetings

3.4.1 Reviews and meetings identified in paragraphs 3.5 through 3.10 shall be conducted by the Contractor with the appropriate DND authorities as approved by the TA.

3.4.2 The Contractor shall ensure that the required data, personnel, and facilities are available for each review and shall submit an agenda to the TA for review at least seven days in advance of each meeting and provide associated minutes no later than seven days following the completion of the event.

3.5 Kickoff Meeting

3.5.1 A Kickoff meeting shall be held within 5 days after contract award.

3.6 Project Review Meetings (PRM) and Technical Interchange Meetings (TIM)

3.6.1 Project Review Meetings (PRMs) shall be conducted as per approved project schedule and shall be chaired by the TA.

3.6.2 PRMs shall encompass total project status as of the review date and shall present a summary of project progress, known problems, proposed resolutions, and impact on the schedule.

3.6.3 Technical Interchange Meetings (TIMs) shall be scheduled between PRMs in such a way that there is a meeting, either a PRM or a TIM, conducted regularly until final product acceptance.

3.6.4 TIMs shall be chaired by the TA and shall deal strictly with technical requirements of the contract.

3.6.5 The TA may cancel PRMs or TIMs by issuing written notice at least five working days prior to the meeting.

3.7 Preliminary Design Review (PDR)

3.7.1 A Preliminary Design Review (PDR) meeting shall be held as per approved project schedule to review the DTT preliminary design and to resolve any outstanding issues.

3.8 Critical Design Review (CDR)

3.8.1 A Critical Design Review (CDR) meeting shall be conducted to ensure that the detailed design will meet DND requirements within the identified cost and schedule constraints, and is appropriate to proceed with full-scale assembly, and integration.

3.8.2 The DTT design shall be frozen upon TA approval of the design solution presented at CDR.

3.8.3 The Design Baseline Control Date shall be established upon TA approval of the design.

3.9 Other Formal Reviews

3.9.1 Reviews dealing with particular issues shall be scheduled and held as mutually agreed by the TA and the Contractor.

3.10 Informal Reviews

3.10.1 The Contractor shall conduct informal reviews as mutually agreed by the TA and the Contractor.

4.0 Systems Engineering

4.1 General

4.1.1 The Contractor shall plan, design, develop, construct, integrate, test, deliver, and install a DTT which meets the requirements of this SOW.

4.1.2 The acceptance of the final product shall be based on tests ensuring that the delivered DTT :

4.1.2.1 meets the requirements defined in the Technical Specification (TS).

4.1.3 The Design Baseline refers to the technical solution for the DTT formally approved by the TA following the Critical Design Review (CDR).

4.2 Systems Engineering Management

4.2.1 The Contractor shall provide the system engineering required for total design, construction, integration, installation and testing of the DTT .

4.2.2 The Contractor shall prepare and submit a Systems Engineering Management Plan (SEMP) IAW CDRL-003/SE-001.

4.2.3 The Contractor shall conduct hardware and software requirements analysis, and shall conduct design IAW the approved SEMF.

4.2.4 The Contractor shall implement, maintain, and use the approved SEMF in the performance of the work. This work shall include:

4.2.4.1 determination of system, subsystem, and equipment detailed performance requirements and interfaces as defined in the Technical Specification (TS);

4.2.4.2 assurance that the system meets the TS requirements through reviews of subsystems, component analysis, and test results; and

4.2.4.3 system integration, which involves aggregating, interconnecting, and testing the hardware, software, and other components so as to deliver the specified functionality.

4.3 Implementation, Integration and Installation

4.3.1 The Contractor shall implement and integrate the DTT design IAW the approved SEMF.

4.3.2 An Installation Readiness Review shall occur as per approved project schedule, at the Contractor's facility. During the Installation Readiness Review, the Contractor shall demonstrate to the TA that the DTT is ready for installation.

4.3.3 The Contractor shall commence installation of the DTT at 8 Wing Trenton upon written approval from TA, following the Installation Readiness Review.

4.4 Acceptance Plan (AP)

4.4.1 The Contractor shall submit an Acceptance Plan (AP) IAW CDRL-004/SE-002.

4.4.2 Execution of the AP at 8 Wing Trenton shall be co-ordinated with DND IAW the approved project schedule.

4.4.3 The AP is part of the SEMF.

4.5 Testing

4.5.1 The Contractor shall prepare and submit Acceptance Test Procedures (ATPs) in IAW CDRL-005/SE-003.

4.5.2 ATPs are part of the AP.

4.5.3 As per approved AP, execution of the ATPs shall verify the serviceability, configuration and functionality of the DTT.

4.5.4 Approved ATPs shall be re-submitted after each testing phase to include the test results.

4.5.5 Upon completion of the on-site installation, DND shall verify, by execution of the ATPs, as per approved AP, that the DTT meets the specified system performance and functional requirements.

4.6 Software

4.6.1 The Contractor shall prepare and submit a Software Development Plan (SDP) in IAW CDRL-006/SE-004.

4.6.2 The SDP is part of the SEMP.

4.6.3 The Contractor shall implement, maintain, and use the approved SDP for the development, integration and testing of software and the related documentation.

4.6.4 Software engineering shall be performed IAW ISO/IEC 90003:2004.

4.6.5 The Contractor shall provide the necessary interfaces and programs to support the DTT,.

4.6.6 The Contractor shall prepare and submit a Computer Program Package IAW CDRL-007/SE-005.

4.6.7 All software documentation shall be delivered IAW CDRL-008/SE-006.

4.7 Configuration Management

4.7.1 The Contractor shall prepare and submit a Configuration Management Plan (CMP) IAW CDRL-009/SE-007.

4.7.2 The Contractor shall implement, maintain, and use the approved CMP for configuration management.

4.7.3 The Contractor shall establish a Design Baseline which describes the configuration intended for the DTT hardware, software, and documentation. The Design Baseline Report shall be submitted for DND approval IAW CDRL-010/SE-008.

4.7.4 The project schedule shall establish a Design Baseline Control Date upon DND approval of the Design Baseline Report.

4.7.5 Following the Design Baseline Control Date, discrepancies between the approved design baseline and the delivered product shall be submitted by the Contractor for TA approval as a request for Design Change, Deviation or Waiver IAW CDRL 011/SE-009.

4.7.6 The CMP is part of the SEMP.

5.0 INTEGRATED LOGISTICS SUPPORT

5.1 Training Plan

5.1.1 The Contractor shall submit a Training Plan (TP) for DND approval IAW CDRL-012/ILS-001.

5.1.2 The Contractor shall deliver the entire training package, including course materials, documentation and training syllabus, as specified in the approved TP. The resultant training shall be of sufficient depth to enable:

5.1.2.1 Conversion training of current CC130H instructors to operate the DTT in its training role without assistance;

5.1.2.2 Lesson Plan development and editing without assistance; and

5.1.2.3 Maintainers to diagnose and correct faults at the first level of maintenance.

5.1.3 The Contractor shall provide on-site training (in Trenton) up to 10 instructors and up to 4 support staff IAW the approved TP and project schedule.

5.2 Technical Data

5.2.1 The Contractor shall be responsible for the acquisition and the accuracy of the data necessary for the planning, design, development, construction, integration, testing, delivery and installation of the DTT.

5.2.2 The Contractor shall submit a Technical Data Management Plan (TDMP) IAW CDRL-013/ILS-002.

5.3 Quality Management

5.3.1 In the performance of the work described herein, the Contractor shall comply with the requirements of ISO 9001:2008, "Quality Management Systems Requirements".

5.3.2 The Contractor shall submit a Quality Assurance (QA) Plan, IAW CDRL-014/ILS-003.

5.3.3 The QA Plan shall describe how the Contractor will meet the quality assurance requirements for the planning, design, development, construction, integration, testing, delivery and installation of the DTT.

5.4 Documentation, Drawings and Publications

5.4.1 The Contractor shall provide:

5.4.1.1 DTT Operating Instructions IAW CDRL-015/ILS-004;

5.4.1.2 DTT Maintenance Manuals IAW CDRL-016/ILS-005; and

5.4.1.3 DTT Software Documentation IAW CDRL-008/SE-006.

5.4.2 Following on-site acceptance, Operating Instructions, Drawings and Maintenance Manuals and Software Documentation shall be validated and certified by the Contractor, and final copies shall be submitted to DND.

5.5 Site Survey

5.5.1 The Contractor shall conduct a site survey of the installation site with the TA or his designated representative for the purpose of assessing site preparation requirements.

5.6 Field Service Representative

5.6.1 The Contractor shall provide a Field Service Representative (FSR) who shall be resident at Trenton and provide support to 426 Squadron. The FSR shall be on site for a period of one (1) month commencing upon completion of on-site acceptance of the DTT.

5.7 Acceptance of Integrated Logistics Support Deliverables

5.7.1 Following conditional product acceptance, all ILS deliverables shall be validated and certified by the Contractor, and final copies shall be submitted to DND. The Contractor shall correct within 30 working days of DND notification any deficiencies, discrepancies or anomalies found during the 12 months following delivery to DND of the approved final copy.

6.0 TECHNICAL REQUIREMENTS

6.1 General

6.1.1 The Contractor shall plan, develop, construct, integrate, test, deliver and install an DTT solution, IAW the approved SEMP, that enables crew training for the CC130H SAR missions .

6.1.2 The following work shall be conducted as per this SOW to comply with the Technical Specification (TS) for the DTT , which is attached as Appendix 2.

6.2 System Requirements

6.2.1 The Contractor shall obtain directly from the Original Equipment Manufacturers all technical data specifying the behaviour and performance of the systems simulated on the DTT.

DEPARTMENT OF NATIONAL DEFENCE (DND)



APPENDIX 1: CDRLS AND DIDS

**TO ANNEX A: STATEMENT OF WORK FOR THE
CC130H DESK TOP TRAINER**

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1.0 CONTRACT DATA REQUIREMENTS LIST (CDRL)

1.1 CDRL Template

1.1.1 A description of each block of information used in the CDRL template follows:

1.1.1.1 Block 1 – CDRL Item Number

The CDRL Item Number is a sequential three-digit number commencing with 001 to uniquely identify the individual Data Item (DI).

1.1.1.2 Block 2 – Title

The title of the DI.

1.1.1.3 Block 3 – Subtitle

Not used.

1.1.1.4 Block 4 – Data Item Number

If applicable, the Data Item Description (DID) number associated with the CDRL item.

1.1.1.5 Block 5 – SOW Reference

The Statement of Work (SOW) paragraph that references the CDRL.

1.1.1.6 Block 6 – Technical Office

Not used.

1.1.1.7 Block 7 - Inspection

Not used.

1.1.1.8 Block 8 – Approval Code

An "A" in Block 8 means that draft approval is required before submission of the final document. If advance approval is not needed, Block 8 is left blank.

An "R" in Block 8 means that the DI will be reviewed by Canada for acceptability of format, clarity and completeness. Once accepted, the DI shall be considered for information only; and

An "I" in Block 8 means that the DI is for information only.

1.1.1.9 Block 9 – Review Period

Denotes the number of working days that are required for the TA to approve or review the DI.

1.1.1.10 Block 10 - Frequency

Indicates the submission frequency of the DI. A description of the submission codes used in Block 10 follows:

CODE	DESCRIPTION
ASREQ	As and when required
MACA	Months after contract award
MNTHY	Monthly
ONCE	One-time delivery
R/ASR	Revisions as required

1.1.1.11 Block 11 – As of Date
Not used.

1.1.1.12 Block 12 – 1st Submission
Specifies the date on which the DI shall be submitted. See Block 10 for submission codes.

1.1.1.13 Block 13 – Subsequent Submission
Specifies the required submittal date(s) for any subsequent deliveries, if the DI is submitted more than once.

1.1.1.14 Block 14 – Distribution and Addressees
Not used.

1.1.1.15 Block 15 – Media and Quantity
The media and, in the case of hard copy, the number of copies in which the data item is to be delivered. The following codes may be used:

- i. Hard Copy;
- ii. Email;
- iii. CD: electronic media stored on CD ROM.

1.1.1.16 Block 16 - Remarks
Provides additional or clarifying information. Where other blocks refer to Block 16 – Remarks, then the associated block number is indicated with the information, and a “See Block 16” note is entered in the referring block.

1.2 CDRL-001 Project Schedule

Block 1 – CDRL Item Number CDRL-001	Block 2 – Title Project Schedule	Block 3 – Subtitle	Block 4 – Data Item Number PM-001	
Block 5 – SOW Reference <u>3.2.1</u>	Block 6 – Technical Office	Block 7 - Inspection	Block 8 – Approval Code A	Block 9 – Review Period 10
Block 10 – Frequency R/ASR	Block 11 – As Of Date	Block 12 – First Submission Block 16		Block 13 – Subsequent Submission 1 MACA
Block 14 – Distribution and Addressees TA, CA		Block 15 – Media and Quantity An electronic copy shall be included with Contractor's Proposal. Schedule shall be in any file type acceptable to the TA. The project schedule may be submitted via either email, CD/DVD or any other electronic transfer medium acceptable to the TA. No paper copy is required for the schedule.		
Block 16 – Remarks First Submission: Draft version shall be submitted with Contractor's Proposal				

1.3 CDRL-002 Progress Reports

Block 1 – CDRL Item Number CDRL-002	Block 2 – Title Progress Reports	Block 3 – Subtitle	Block 4 – Data Item Number PM-002	
Block 5 – SOW Reference <u>3.3.1</u>	Block 6 – Technical Office	Block 7 - Inspection	Block 8 – Approval Code R	Block 9 – Review Period 5
Block 10 – Frequency Block 16	Block 11 – As Of Date	Block 12 – First Submission Block 16		Block 13 – Subsequent Submission Block 16
Block 14 – Distribution and Addressees TA		Block 15 – Media and Quantity Email or any other electronic transfer media acceptable to TA. Progress Reports shall be provided in a file type acceptable to the TA. No paper copy is required for the progress reports.		
Block 16 – Remarks Frequency First Submission & Subsequent Submissions – Progress Reports shall be submitted 5 working days before each PRM, which shall occur IAW approved schedule and whenever the contractor and the TA agree to meet to solve specific issues.				

1.4 CDRL-003 System Engineering Management Plan

Block 1 – CDRL Item Number CDRL-003	Block 2 – Title System Engineering Management Plan (SEMP)	Block 3 – Subtitle	Block 4 – Data Item Number SE-001
Block 5 – SOW Reference <u>4.2.2</u>	Block 6 – Technical Office	Block 7 – Inspection	Block 8 – Approval Code A
Block 10 – Frequency R/ASR	Block 11 – As Of Date	Block 12 – First Submission Block 16	Block 9 – Review Period 30
Block 14 – Distribution and Addressees TA	Block 15 – Media and Quantity An electronic Copy shall be included with Contractor's Proposal, either on CD/DVD or via an electronic transfer medium deemed acceptable by the TA. The SEMP shall use a file type acceptable to the TA. No paper copy is required for the SEMP.		
Block 16 – Remarks First Submission: Draft SEMP shall be submitted with the Contractor's Proposal Subsequent Submission: As per Approved Schedule			

1.5 CDRL-004 Acceptance Plan

Block 1 – CDRL Item Number CDRL-004	Block 2 – Title Acceptance Plan (AP)	Block 3 – Subtitle	Block 4 – Data Item Number SE-002	
Block 5 – SOW Reference <u>4.4.1</u>	Block 6 – Technical Office	Block 7 – Inspection	Block 8 – Approval Code A	Block 9 – Review Period 30
Block 10 – Frequency R/ASR	Block 11 – As Of Date	Block 12 – First Submission Block 16		Block 13 – Subsequent Submission Block 16
Block 14 – Distribution and Addressees TA		Block 15 – Media and Quantity An electronic copy shall be included with Contractor's Proposal, either on CD/DVD or via an electronic transfer medium deemed acceptable by the TA. The file type used shall be acceptable to the TA. No paper copy is required for the AP.		
Block 16 – Remarks First Submission: Draft AP shall be submitted with the Contractor's proposal Subsequent Submission: IAW the approved schedule, the AP shall be re-submitted after on-site testing, to reflect any changes in the plan arising from testing, as required, and to summarize and analyze test results.				

1.6 CDRL-005 Acceptance Test Procedures

Block 1 – CDRL Item Number CDRL-005	Block 2 – Title Acceptance Test Procedures (ATP)	Block 3 – Subtitle	Block 4 – Data Item Number SE-003
Block 5 – SOW Reference <u>4.5.1</u>	Block 6 – Technical Office	Block 7 – Inspection	Block 8 – Approval Code A
Block 10 – Frequency R/ASR	Block 11 – As Of Date	Block 12 – First Submission Block 16	Block 9 – Review Period Block 16
Block 14 – Distribution and Addressees TA	Block 15 – Media and Quantity The Contractor shall update existing documentation in their original quantity and format, i.e. Electronic and/or hard copy format, as applicable. Any new ATP delivered shall include an electronic copy using any file type acceptable to the TA and one hardcopy. Electronic File transfer may occur via disk in the mail, email or any other electronic transfer means acceptable to the TA.		
Block 16 – Remarks First Submission, Subsequent Submission & Review Period – The initial delivery shall be scheduled to allow 30 days for DND review and comment after which the subsequent version shall be delivered no later than 30 days before commencement of on-site acceptance testing. The verification matrix shall be delivered at least 30 days prior to initial delivery of the ATP. Following the completion of the post-installation test phase, ATPs shall be re-submitted with the test results included, IAW the approved schedule.			

1.7 CDRL-006 Software Development Plan

Block 1 – CDRL Item Number CDRL-006	Block 2 – Title Software Development Plan (SDP)	Block 3 – Subtitle	Block 4 – Data Item Number SE-004	
Block 5 – SOW Reference <u>4.6.1</u>	Block 6 – Technical Office	Block 7 – Inspection	Block 8 – Approval Code A	Block 9 – Review Period 30
Block 10 – Frequency R/ASR	Block 11 – As Of Date	Block 12 – First Submission Block 16		Block 13 – Subsequent Submission Block 16
Block 14 – Distribution and Addressees TA		Block 15 – Media and Quantity An electronic Copy shall be included with Contractor's Proposal, either on CD/DVD or via an electronic transfer medium deemed acceptable by the TA. The SDP shall use any file type acceptable to the TA. No paper copy is required for the SDP.		
Block 16 – Remarks First Submission: Draft SDP shall be submitted with the Contractor's proposal Subsequent Submission: As per approved schedule				

1.8 CDRL-007 Computer Program Package

Block 1 – CDRL Item Number CDRL-007	Block 2 – Title Computer Program Package	Block 3 – Subtitle	Block 4 – Data Item Number SE-005	
Block 5 – SOW Reference <u>4.6.6</u>	Block 6 – Technical Office	Block 7 – Inspection	Block 8 – Approval Code A	Block 9 – Review Period Block 16
Block 10 – Frequency Once	Block 11 – As Of Date	Block 12 – First Submission Block 16		Block 13 – Subsequent Submission
Block 14 – Distribution and Addressees TA		Block 15 – Media and Quantity The Computer programs shall be in a format compatible with DTT systems. Delivery may occur via disk in the mail or any electronic transfer means acceptable to the TA. The Contractor shall include two copies for the DTT and one copy for the TA.		
Block 16 – Remarks First Submission – To be delivered coincident with the start of post-installation on-site acceptance testing. Review Period – Acceptance of Computer Program Package will coincide with acceptance of final Design Baseline Report.				

1.9 CDRL-008 Software Documentation

Block 1 – CDRL Item Number CDRL-008	Block 2 – Title Software Documentation	Block 3 – Subtitle	Block 4 – Data Item Number SE-006	
Block 5 – SOW Reference 4.6.7 5.4.1.3	Block 6 – Technical Office	Block 7 – Inspection	Block 8 – Approval Code R	Block 9 – Review Period 30
Block 10 – Frequency Block 16	Block 11 – As Of Date	Block 12 – First Submission Block 16	Block 13 – Subsequent Submission Block 16	
Block 14 – Distribution and Addressees TA		Block 15 – Media and Quantity The Contractor shall update existing documentation in their original format, i.e. Electronic and/or hard copy format, as applicable. All new documentation shall be in electronic copy only, using a file type acceptable to the TA. File transfer may occur via disk in the mail, email or any other electronic transfer means acceptable to the TA.		
Block 16 – Remarks Frequency, First & Subsequent Submission- Drafts shall be scheduled to allow DND 30 days to review and comment and sufficient time thereafter for the Contractor to take corrective action prior to on-site acceptance testing. Finals shall then be delivered within three months after on-site acceptance.				

1.10 CDRL-009 Configuration Management Plan

Block 1 – CDRL Item Number CDRL-009	Block 2 – Title Configuration Management Plan (CMP)	Block 3 – Subtitle	Block 4 – Data Item Number SE-007
Block 5 – SOW Reference <u>4.7.1</u>	Block 6 – Technical Office	Block 7 – Inspection	Block 8 – Approval Code A
Block 10 – Frequency R/ASR	Block 11 – As Of Date	Block 12 – First Submission Block 16	Block 13 – Subsequent Submission Block 16
Block 14 – Distribution and Addressees TA	Block 15 – Media and Quantity An electronic Copy shall be included with Contractor's Proposal, either on CD/DVD or via an electronic transfer medium deemed acceptable by the TA. The CMP shall use any file type acceptable to the TA. No paper copy is required for the CMP.		
Block 16 – Remarks First Submission: Draft CMP shall be submitted with the Contractor's proposal Subsequent Submission: As per approved schedule			

1.11 CDRL-010 Design Baseline Report

Block 1 – CDRL Item Number CDRL-010	Block 2 – Title Design Baseline Report	Block 3 – Subtitle	Block 4 – Data Item Number SE-008	
Block 5 – SOW Reference ..4.7.3	Block 6 – Technical Office	Block 7 – Inspection	Block 8 – Approval Code A	Block 9 – Review Period 30
Block 10 – Frequency ASREQ	Block 11 – As Of Date	Block 12 – First Submission ASREQ	Block 13 – Subsequent Submission ASREQ	
Block 14 – Distribution and Addressees TA	Block 15 – Media and Quantity An electronic Copy shall be delivered either on CD/DVD or via an electronic transfer medium deemed acceptable by the TA. The requests shall use any file type acceptable to the TA. No paper copy is required for these requests.			
Block 16 – Remarks The report for the Design Baseline shall be submitted IAW the approved schedule.				

1.12 CDRL-011 Design Changes, Deviations and Waivers

Block 1 – CDRL Item Number CDRL-011	Block 2 – Title Design Changes, Deviations and Waivers	Block 3 – Subtitle	Block 4 – Data Item Number SE-009	
Block 5 – SOW Reference 4.7.5	Block 6 – Technical Office	Block 7 – Inspection	Block 8 – Approval Code A	Block 9 – Review Period 30
Block 10 – Frequency ASREQ	Block 11 – As Of Date	Block 12 – First Submission ASREQ	Block 13 – Subsequent Submission ASREQ	
Block 14 – Distribution and Addressees TA		Block 15 – Media and Quantity An electronic Copy shall be delivered either on CD/DVD or via an electronic transfer medium deemed acceptable by the TA. The requests shall use any file type acceptable to the TA. No paper copy is required for these requests.		
Block 16 – Remarks				

1.13 CDRL-012 Training Plan (TP)

Block 1 – CDRL Item Number CDRL-012	Block 2 – Title Training Plan (TP)	Block 3 – Subtitle	Block 4 – Data Item Number ILS-001	
Block 5 – SOW Reference ..5.1.1	Block 6 – Technical Office	Block 7 – Inspection	Block 8 – Approval Code A	Block 9 – Review Period 30
Block 10 – Frequency R/ASR	Block 11 – As Of Date	Block 12 – First Submission Block 16		Block 13 – Subsequent Submission Block 16
Block 14 – Distribution and Addressees TA		Block 15 – Media and Quantity An electronic Copy shall be included with Contractor's Proposal, either on CD/DVD or via an electronic transfer medium deemed acceptable by the TA. File type used may be MS Word or any other format acceptable to the TA. No paper copy is required for the TP.		
Block 16 – Remarks First Submission- A draft shall be submitted with the Contractor's proposal. Draft submission need only be concerned with planning/process issues. Subsequent Submission- The final delivery shall be IAW the approved schedule. 30 days shall be allowed for DND review and comment.				

1.14 CDRL-013 Technical Data Management Plan (TDMP)

Block 1 – CDRL Item Number CDRL-013	Block 2 – Title Technical Data Management Plan (TDMP)	Block 3 – Subtitle	Block 4 – Data Item Number ILS-002
Block 5 – SOW Reference 5.2.2	Block 6 – Technical Office	Block 7 – Inspection	Block 8 – Approval Code A
Block 10 – Frequency R/ASR	Block 11 – As Of Date	Block 12 – First Submission Block 16	Block 13 – Subsequent Submission Block 16
Block 14 – Distribution and Addressees TA	Block 15 – Media and Quantity The TDMP shall be delivered in electronic copy only, using any file type acceptable to the TA. Electronic File transfer may occur via disk in the mail to address in block 14, email or any other electronic transfer means acceptable to the TA.		
Block 16 – Remarks First & Subsequent Submission: A draft shall be submitted with the Contractor's proposal. The final delivery shall be IAW the schedule approved by DND.			

1.15 CDRL-014 Quality Assurance (QA) Plan

Block 1 – CDRL Item Number CDRL-014	Block 2 – Title Quality Assurance (QA) Plan	Block 3 – Subtitle	Block 4 – Data Item Number ILS-003	
Block 5 – SOW Reference 5.3.2	Block 6 – Technical Office	Block 7 – Inspection	Block 8 – Approval Code A	Block 9 – Review Period 30
Block 10 – Frequency R/ASR	Block 11 – As Of Date	Block 12 – First Submission Block 16	Block 13 – Subsequent Submission Block 16	
Block 14 – Distribution and Addressees TA		Block 15 – Media and Quantity An electronic Copy shall be included with Contractor's Proposal, either on CD/DVD or via an electronic transfer medium deemed acceptable by the TA. File type used may be MS Word or any other format acceptable to the TA. No paper copy is required for the QA Plan.		
Block 16 – Remarks First & Subsequent Submission: A draft QA Plan shall be submitted with the Contractor's proposal. Following DND review and comment, the final shall be submitted for DND approval by 1 MACA.				

1.16 CDRL-015 Operating Instructions

Block 1 – CDRL Item Number CDRL-015	Block 2 – Title Operating Instructions	Block 3 – Subtitle	Block 4 – Data Item Number ILS-004	
Block 5 – SOW Reference <u>5.4.1.1</u>	Block 6 – Technical Office	Block 7 – Inspection	Block 8 – Approval Code A	Block 9 – Review Period 30
Block 10 – Frequency R/ASR	Block 11 – As Of Date	Block 12 – First Submission Block 16	Block 13 – Subsequent Submission Block 16	
Block 14 – Distribution and Addressees TA		Block 15 – Media and Quantity An electronic Copy shall be delivered either on CD/DVD or via an electronic transfer medium deemed acceptable by the TA. The Operating Instructions shall use any file type acceptable to the TA.		
Block 16 – Remarks First Submission: Draft: 30 working days prior to on-site acceptance testing. Subsequent Submission: Final shall be delivered no more than 3 calendar months after completion of on-site acceptance testing				

1.17 CDRL-016 Drawings and Maintenance Manuals

Block 1 – CDRL Item Number CDRL-016	Block 2 – Title Drawings and Maintenance Manuals	Block 3 – Subtitle	Block 4 – Data Item Number ILS-005	
Block 5 – SOW Reference <u>5.4.1.2</u>	Block 6 – Technical Office	Block 7 – Inspection	Block 8 – Approval Code A	Block 9 – Review Period 30
Block 10 – Frequency R/ASR	Block 11 – As Of Date	Block 12 – First Submission Block 16	Block 13 – Subsequent Submission Block 16	
Block 14 – Distribution and Addressees TA		Block 15 – Media and Quantity A total of two hard copies shall be mailed to the addressee in Block 14. The hard copy submissions shall be in the form of a printed amendments package. DND will then remove superseded pages from the existing publications and insert the amendments. An electronic Copy shall be delivered either on CD/DVD or via an electronic transfer medium deemed acceptable by the TA. The Operating Instructions shall use any file type acceptable to the TA.		
Block 16 – Remarks First Submission: Drafts shall be scheduled to allow DND 30 days to review and comment and sufficient time thereafter for the Contractor to take corrective action prior to on-site acceptance testing. Subsequent Submission: Final: no more than 3 calendar months after completion of on-site acceptance testing				

2.0 DATA ITEM DESCRIPTIONS (DID)

2.1 DID Template

2.1.1 A description of each block of information used in the DID template follows:

2.1.1.1 Block 1 – Title

This is the title of the DID and corresponds to the associated CDRL item title.

2.1.1.2 Block 2 – Identification Number

This is the number assigned to the DID.

2.1.1.3 Block 3 – Description/Purpose

This provides general information on how the Data Item (DI) is to be used.

2.1.1.4 Block 4 – Approval Date

Not used.

2.1.1.5 Block 5 – Office of Primary Interest

Not used.

2.1.1.6 Block 6 – Office of Collateral Interest

Not used.

2.1.1.7 Block 7 – Interrelationship

The Statement of Work paragraph that references the DID.

2.1.1.8 Block 8 – Originator

Not used.

2.1.1.9 Block 9 – References

This points to the standard(s) to be used for completion of DI.

2.1.1.10 Block 10 – Preparation Instructions

This provides the preparation details for the format and for the content in the DID.

2.2 PM-001 Project Schedule

DATA ITEM DESCRIPTION (DID)		DND Form 1409
1. TITLE - TITRE Project Schedule		2. IDENTIFICATION NUMBER - NUMÉRO D'IDENTIFICATION CDRL-001/PM-001
3. DESCRIPTION/PURPOSE - DESCRIPTION/OBJET The schedule shall include all project activities and shall identify the major activities and milestones. The Project Schedule shall reflect the time-phased sequence of the Contractor activities, deliverables and milestones for the Contractor's work on the DTT project. The Project Schedule shall be used to depict the schedule status of the overall project.		
4. APPROVAL DATE - DATE D'APPROBATION	5. OFFICE OF PRIMARY INTEREST (OPI) BUREAU DE PREMIÈRE RESPONSABILITÉ (BPR)	6. OFFICE OF COLLATERAL INTEREST
7. INTERRELATIONSHIP <u>3.2.1</u>		
8. ORIGINATOR - AUTEUR		9. REFERENCES
10. PREPARATION INSTRUCTIONS - INSTRUCTIONS SUR LA PRÉSENTATION DES DONNÉES 10.1 The Project Schedule shall include the Contractor's major and significant events, deliverables, milestones and summary activities. The information on the Project Schedule shall be in sufficient detail to monitor the progress of the work, and to facilitate the coordination of Government Property and resources being provided by Canada. The Project Schedule shall include: 10.1.1 a tracking Gantt chart showing the contract work elements; 10.1.2 major contract milestones; 10.1.3 all meetings; 10.1.4 production start, completion and dates for each deliverable; 10.1.5 on-site Acceptance Test dates; and 10.1.6 update submissions shall be in the form of a re-issuance of the complete Project Schedule. The Project Schedule status reporting requirements shall include progress indications and planned or actual schedule slippage/accelerations of the current schedule shall be clearly shown in relation to the baseline schedule.		

2.3 PM-002 Progress Report

DATA ITEM DESCRIPTION (DID)		DND Form 1409
1. TITLE Progress Report		2. IDENTIFICATION NUMBER CDRL-002/PM-002
3. DESCRIPTION/PURPOSE The Progress Report summarizes the Contractor's progress in relation to the Contract.		
4. APPROVAL DATE	5. OFFICE OF PRIMARY INTEREST	6. OFFICE OF COLLATERAL INTEREST
7. INTERRELATIONSHIP <u>3.3.1</u>		
8. ORIGINATOR		9. REFERENCES
10. PREPARATION INSTRUCTIONS 10.1 The Progress Report shall be submitted in Contractor format. The Progress Report shall include the following information: 10.1.1 an update on risks and issues containing, as a minimum: description of issues and associated risks, their impact, their likelihood, proposed mitigation and response action; 10.1.2 a narrative detailing design changes, progress against milestones, expected date of completion of near milestones, problem areas, and work-around plans where required; 10.1.3 significant incidents including, as a minimum, significant technical, supply or quality problems, anticipation of a significant schedule slippage involving the work; 10.1.4 production status against each deliverable and the timing of significant stages of production, testing, and delivery; 10.1.5 all minutes of all meetings, in Contractor format, within the reporting period; and 10.1.6 outstanding action items.		

2.4 SE-001 Systems Engineering Management Plan

DATA ITEM DESCRIPTION (DID)		DND Form 1409
1. TITLE Systems Engineering Management Plan (SEMP)		2. IDENTIFICATION NUMBER CDRL-003/SE-001
3. DESCRIPTION The SEMP describes the engineering processes, methods and designs used by the contractor to ensure system integration and product performance. The SEMP describes the Contractor's Plan for the conduct and management of a fully integrated engineering effort that satisfies the technical requirements of the Contract.		
4. APPROVAL DATE	5. OFFICE OF PRIMARY INTEREST	6. OFFICE OF COLLATERAL INTEREST
7. APPLICATION / INTERRELATIONSHIP <u>4.2.2</u>		
8. ORIGINATOR		9. REFERENCES
10. PREPARATION INSTRUCTIONS 10.1 The SEMP shall be in Contractor format. The SEMP shall contain the following information: 10.1.1 <u>Introduction</u> : defines the scope and purpose of the plan, together with applicable definitions, references and related documents; 10.1.2 <u>Management</u> : this section shall explain the engineering management plan to deliver all technical deliverables, from design to acceptance; 10.1.3 <u>Design</u> : this section shall overview the selection of systems (hardware and software), subsystems and determine their performance requirements and interfaces. The design shall provide an overview of the plans and methods used to aggregate, interconnect, and test the hardware, software, and other components so as to deliver the specified functionality. The SEMP shall reference the following associated plans and reports, as a minimum, for amplifying details: 10.1.3.1 Design Baseline Report; 10.1.3.2 Software Development Plan; 10.1.3.3 Configuration Management Plan; 10.1.3.4 Acceptance Plan; 10.1.3.5 Technical Data Management Plan; and 10.1.3.6 Quality Assurance Plan.		

2.5 SE-002 Acceptance Plan

DATA ITEM DESCRIPTION (DID)		DND Form 1409	
1. TITLE Acceptance Plan (AP)		2. IDENTIFICATION NUMBER CDRL-004/SE-002	
3. DESCRIPTION/PURPOSE The AP shall describe the Contractor's overall plan to demonstrate product conformance to the Contract requirements. The AP shall describe how the Contractor shall verify product conformance to the approved Design Baseline. After testing, a new version of the AP shall be submitted to analyze the test results noted in the Acceptance Test Procedures (ATPs), to demonstrate product conformance.			
4. APPROVAL DATE	5. OFFICE OF PRIMARY INTEREST	6. OFFICE OF COLLATERAL INTEREST	
7. INTERRELATIONSHIP <u>4.4.1</u>			
8. ORIGINATOR		9. REFERENCES	
10. PREPARATION INSTRUCTIONS 10.1 The AP shall be in Contractor's format. 10.2 The AP shall describe how the Contractor intends to manage all acceptance testing activities to demonstrate product conformance to the Contract requirements, then prove product conformance to the approved Design Baseline. 10.3 The AP shall arrange for the development of ATPs, the execution of the tests, and the analysis of test results. 10.4 The AP shall demonstrate that the system meets the work requirements through reviews of subsystems, component analysis, and test results. Following installation, test results shall be reported in Acceptance Test Procedures (ATPs), but summarized and analyzed in subsequent submissions of the AP. 10.5 The AP shall outline the coordination mechanisms to ensure participation of DND in the testing activities.			

2.6 SE-003 Acceptance Test Procedures

DATA ITEM DESCRIPTION (DID)		DND Form 1409
1. TITLE		2. IDENTIFICATION NUMBER
Acceptance Test Procedures (ATPs)		CDRL-005/SE-003
3. DESCRIPTION/PURPOSE		
ATPs document the criteria and acceptance procedures to establish the DTT configuration and serviceability as GFE prior to installation of the, and demonstrate that the product meets the requirements of the contract following the installation.		
4. APPROVAL DATE	5. OFFICE OF PRIMARY INTEREST	6. OFFICE OF COLLATERAL INTEREST
7. INTERRELATIONSHIP		
<u>4.5.1</u>		
8. ORIGINATOR		9. REFERENCES
10. PREPARATION INSTRUCTIONS		
10.1 The ATP format shall be in the Contractors best format as approved by the TA. ATPs describe the tests that define the criteria for the acceptance of the final delivered product.		
10.2 The ATPs shall be formatted to combine the procedures and results into one document. Included in the format will be columns for Contractor and DND initials to verify results and to document action items resulting from testing, as required.		

2.7 SE-004 Software Development Plan

DATA ITEM DESCRIPTION (DID)		DND Form 1409
1. TITLE Software Development Plan (SDP)		2. IDENTIFICATION NUMBER CDRL-006/SE-004
3. DESCRIPTION The SDP describes the Contractor's approach, plans and methodologies for conducting software development.		
4. APPROVAL DATE	5. OFFICE OF PRIMARY INTEREST	6. OFFICE OF COLLATERAL INTEREST
7. APPLICATION / INTERRELATIONSHIP <u>4.6.1</u>		
8. ORIGINATOR	9. REFERENCES ISO/IEC 90003:2004	
10. PREPARATION INSTRUCTIONS 10.1 The format and content of the SDP shall conform to the latest version ISO/IEC 90003:2004 (at contract signature).		

2.8 SE-005 Computer Program Package

DATA ITEM DESCRIPTION (DID)		DND Form 1409
1. TITLE Computer Program Package	2. IDENTIFICATION NUMBER CDRL-007/SE-005	
3. DESCRIPTION/PURPOSE The Computer Program Package includes all operational, software, and maintenance and test programs on media appropriate for rapid input to the DTT.		
4. APPROVAL DATE	5. OFFICE OF PRIMARY INTEREST	6. OFFICE OF COLLATERAL INTEREST
7. INTERRELATIONSHIP <u>4.6.6</u>		
8. ORIGINATOR	9. REFERENCES	
10. PREPARATION INSTRUCTIONS 10.1 The Contractor shall provide all software computer programs in executable format. The existing computer program package shall be as necessary to support the DTT, to include the following types of programs: 10.1.1 <u>Operational Programs</u> . Programs that, when loaded and operated IAW Operating Instructions, enable instructors to operate the DTT in its designated role. These programs include the necessary executive, operating system, applications programs and associated libraries, databases etc. 10.1.2 <u>Maintenance and Test Programs</u> . Programs that, when loaded and operated IAW the publications, enable maintenance personnel to test, calibrate, diagnose and rectify any failures within the system to design capabilities. The maintenance programs also include a Lesson Plan Editor compatible with the DTT systems. The Lesson Plan Editor shall enable efficient conversion of existing Lesson Plans (LPs) and creation of new LPs that will function effectively in the DTT. 10.1.3 <u>Operating System</u> . Operating system software which is used to schedule and control the operational programs. 10.1.4 <u>Software Tools</u> . Support and program generation software including a compiler, linker, debugger, profiler or performance analyzer, and editor. 10.2 The Computer Program Package shall be supplied in a form suitable for rapid insertion into the DTT System computer(s) by digital transfer equipment. 10.3 The Computer Program Package shall be packaged and marked appropriately to ensure physical safekeeping and ready identification of contents. 10.4 Appropriate licensing shall be provided to allow DND to keep onsite and offsite archive copies		

of the Computer Program Package for backup purposes.

2.9 SE-006 Software Documentation

DATA ITEM DESCRIPTION (DID)		DND Form 1409
1. TITLE Software Documentation		2. IDENTIFICATION NUMBER CDRL-008/SE-006
3. DESCRIPTION/PURPOSE To provide software documentation package that will enable software use and software support of the DTT throughout its life cycle.		
4. APPROVAL DATE	5. OFFICE OF PRIMARY INTEREST	6. OFFICE OF COLLATERAL INTEREST
7. INTERRELATIONSHIP <u>4.6.7</u> <u>5.4.1.3</u>		
8. ORIGINATOR		9. REFERENCES ISO/IEC 90003:2004
10. PREPARATION INSTRUCTIONS 10.1 The Contractor shall deliver all software documentation required to operate and maintain DTT software over its lifecycle. Software documentation shall conform to ISO/IEC 90003:2004 (version effective at contract signature). The documentation provided shall include documents IAW the approved technical proposal.		

2.10 SE-007 Configuration Management Plan

DATA ITEM DESCRIPTION (DID)		DND Form 1409
1. TITLE Configuration Management Plan (CMP)		2. IDENTIFICATION NUMBER CDRL-009/SE-007
3. DESCRIPTION/PURPOSE The CMP shall describe how the Contractor will establish and maintain control of the DTT throughout the life of the project.		
4. APPROVAL DATE	5. OFFICE OF PRIMARY INTEREST	6. OFFICE OF COLLATERAL INTEREST
7. INTERRELATIONSHIP <u>4.7.1</u>		
8. ORIGINATOR		9. REFERENCES
10. PREPARATION INSTRUCTIONS 10.1 The CMP shall be prepared and submitted for DND approval in Contractor format IAW the approved SEMP. Where reference to other documents is made from within the CMP, such documents shall be attached as annexes to the CMP. 10.2 The CMP shall refer to the Baseline report for CM details. 10.3 The CMP shall include all approved design changes, deviations and waivers as annexes.		

2.11 SE-008 Design Baseline Report

DATA ITEM DESCRIPTION (DID)		DND Form 1409
1. TITLE Design Baseline Reports	2. IDENTIFICATION NUMBER CDRL-010/SE-008	
3. DESCRIPTION/PURPOSE The Design Baseline Report describes the baseline configuration intended by the design approved at CDR.		
4. APPROVAL DATE	5. OFFICE OF PRIMARY INTEREST	6. OFFICE OF COLLATERAL INTEREST
7. INTERRELATIONSHIP 4.7.3		
8. ORIGINATOR	9. REFERENCES	
10. PREPARATION INSTRUCTIONS 10.1 The Design Baseline Report shall be prepared in Contractor format. 10.2 The Design Baseline Report shall include a detailed description of the status and configuration intended by the design solution for the CC130 Hercules Desk Top Trainer HW, SW, interfaces, LP and documentation.		

2.12 SE-009 Design Changes, Deviations and Waivers

DATA ITEM DESCRIPTION (DID)		DND Form 1409
1. TITLE Design Changes, Deviations and Waivers		2. IDENTIFICATION NUMBER CDRL-011/SE-009
3. DESCRIPTION/PURPOSE A Design Change is a proposed change in the configuration item after establishment of the Design Baseline. It contains the documentation and data describing the change. A deviation authorizes departure from a particular contractual requirement. A Deviation is a specific written authorization, granted prior to the manufacture of an item, to depart from a particular performance or design requirement of a specification, drawing or other document for a specific number of units or a specific period of time. A deviation differs from an engineering change in that an approved engineering change requires corresponding revision of the documentation defining the affected item whereas a deviation does not contemplate revision of the application specification or drawing. A waiver authorizes acceptance of an item not conforming to contractual requirements. A Waiver is a written authorization to accept an item, which during production or after having been submitted for inspection, is found to depart from specified requirements, but nevertheless, is considered suitable for use "as is" or after rework by an approved method.		
4. APPROVAL DATE	5. OFFICE OF PRIMARY INTEREST	6. OFFICE OF COLLATERAL INTEREST
7. INTERRELATIONSHIP <u>4.7.5</u>		
8. ORIGINATOR	9. REFERENCES D-02-006-008/SG-001	
10. PREPARATION INSTRUCTIONS 10.1 The Contractor shall prepare and submit Design Changes, Requests for Waivers and Deviations IAW D-02-006-008/SG-001.		

2.13 ILS-001 Training Plan

DATA ITEM DESCRIPTION (DID)		DND Form 1409	
1. TITLE Training Plan (TP)		2. IDENTIFICATION NUMBER CDRL-012/ILS-001	
3. DESCRIPTION/PURPOSE The TP shall provide all information required to deliver on-site training to DND instructors, and maintainers, to enable operation and support of the DTT.			
4. APPROVAL DATE	5. OFFICE OF PRIMARY INTEREST	6. OFFICE OF COLLATERAL INTEREST	
7. INTERRELATIONSHIP 5.1.1			
8. ORIGINATOR		9. REFERENCES	
10.1 PREPARATION INSTRUCTIONS 10.2 The TP shall be prepared in Contractor format and shall describe how the Contractor will provide training. Training shall be in sufficient depth to enable: 10.2.1 instructors to operate the DTT in its training role without assistance; 10.2.2 maintainers to diagnose and correct faults to the first level of maintenance. First Level Maintenance means inspections; servicing and fault correction generally by replacement of a quick replacement module, performed using DND-owned tools and replaceable unit/assemblies; 10.2.3 edition of Lesson Plans without assistance; and 10.3 The TP shall plan include the preparation of all documentation, and all other information and material necessary to conduct the training.			

2.14 ILS-002 Technical Data Management Plan

DATA ITEM DESCRIPTION (DID)		DND Form 1409	
1. TITLE Technical Data Management Plan (TDMP)		2. IDENTIFICATION NUMBER CDRL-013/ILS-002	
3. DESCRIPTION/PURPOSE The TDMP shall contain a description of all necessary Technical Data required for the Contractor to do the work described in the SOW.			
4. APPROVAL DATE	5. OFFICE OF PRIMARY INTEREST	6. OFFICE OF COLLATERAL INTEREST	
7. INTERRELATIONSHIP <u>5.2.2</u>			
8. ORIGINATOR		9. REFERENCES	
10. PREPARATION INSTRUCTIONS 10.1 The TDMP shall be prepared in the Contractor's own format and shall include the following fields: 10.1.1 a complete list of technical data required; 10.1.2 the source of technical data; 10.1.3 the method used to ascertain validity of the technical data; 10.1.4 the process used to maintain configuration control of the technical data; and 10.1.5 identification of any technical data which may be difficult or impossible to obtain and the proposed work around.			

2.15 ILS-003 Quality Assurance Plan

DATA ITEM DESCRIPTION (DID)		DND Form 1409
1. TITLE Quality Assurance (QA) Plan		2. IDENTIFICATION NUMBER CDRL-014/ILS-003
3. DESCRIPTION/PURPOSE The Contractors Quality Assurance (QA) Plan shall define how the quality system requirements of ISO 9001:2008 will be met for the DTT.		
4. APPROVAL DATE	5. OFFICE OF PRIMARY INTEREST	6. OFFICE OF COLLATERAL INTEREST
7. INTERRELATIONSHIP 5.3.2		
8. ORIGINATOR		9. REFERENCES ISO 9001:2008 ISO 10005:2005
10. PREPARATION INSTRUCTIONS 10.1 <u>General</u> . The Contractors Quality Plan shall define how the quality system requirements of ISO 9001:2008 - Quality management systems will be met for the project. 10.2 <u>Content of the Quality Plan</u> . The content of the Quality Plan shall be based on ISO 10005:2005: Quality management systems -- Guidelines for quality plans and the specific requirements of this DID.		

2.16 ILS-004 Operating Instructions

DATA ITEM DESCRIPTION (DID)		DND Form 1409
1. TITLE DTT Operating Instructions		2. IDENTIFICATION NUMBER CDRL-015/ILS-004
3. DESCRIPTION/PURPOSE To provide DTT Operating Instructions manual to allow instructors and maintainers to operate the DTT.		
4. APPROVAL DATE	5. OFFICE OF PRIMARY INTEREST	6. OFFICE OF COLLATERAL INTEREST
7. INTERRELATIONSHIP <u>5.4.1.1</u>		
8. ORIGINATOR		10. REFERENCES
10. PREPARATION INSTRUCTIONS 10.1 The Contractor shall provide a DTT Operating Instructions manual to reflect the operations of the DTT. The Operating Instruction Manual shall conform to the specification in C-01-100-100/AG-005. 10.2 The Operating Instruction manual shall be the sole reference necessary for DTT operation. The manual will also be a reference handbook for operators and maintenance personnel who will need to operate the DTT for maintenance purposes. It shall include descriptions of all DTT modes, and procedures. Descriptions shall cover every control, button, switch, readout, and display affected by the program at the level required for efficient operation. Illustrations shall be included to aid operators in locating controls. Equipment interconnections necessary for correct system operation shall be included.		

2.17 ILS-005 Drawings & Maintenance Manuals

DATA ITEM DESCRIPTION (DID)		DND Form 1409
1. TITLE Drawings & Maintenance Manuals		2. IDENTIFICATION NUMBER CDRL-016/ILS-005
3. DESCRIPTION/PURPOSE To provide Engineering drawings, their associated lists and Maintenance Manuals that enable support of the DTT over its lifecycle.		
4. APPROVAL DATE	5. OFFICE OF PRIMARY INTEREST	6. OFFICE OF COLLATERAL INTEREST
7. INTERRELATIONSHIP <u>5.4.1.2</u>		
8. ORIGINATOR		9. REFERENCES D-01-100-214/SF-000, Para 3.8.3
10. PREPARATION INSTRUCTIONS 10.1 The Contractor shall provide engineering drawings and maintenance manuals to reflect the DTT. The Contractor shall provide engineering drawings and maintenance manuals necessary to support the DTT. . 10.2 <u>Engineering Drawings</u> : The drawing set shall conform to paragraph 3.8.3 of D-01-100-214/SF-000 and shall include: 10.2.1 Drawings essential to accommodate installation, maintenance, removal, and repair of all equipment; 10.2.2 Drawings for all electrical schematics, cabling, interconnections, and wiring diagrams. 10.3 <u>System Maintenance Manuals</u> : manuals shall outline the scope and configuration of the system, and shall augment and relate to manuals supplied with vendor equipment (e.g. computer). Manuals shall include as a minimum: 10.3.1 operating procedures; 10.3.2 guidance on routine servicing; 10.3.3 system fault finding, use of maintenance and test programs, and corrections; 10.3.4 a functional description showing the parameters and interrelationship of the equipment comprising the total system; 10.3.5 illustrations, block, wiring, and system diagrams showing equipment inter-connection and signal paths; 10.3.6 information on any modifications, special configuration or options to vendor equipment, 10.3.7 information on fabricated cables and connectors peculiar to the system;		

- 10.3.8 information on special parts required which are not covered by individual manual parts lists; and
- 10.3.9 information relating to system assembly/disassembly and setup procedures.
- 10.4 Vendor Publications: Publications prepared by manufacturers of commercial vendor equipment shall be included with the publication set.