National Defence

National Defence Headquarters
Ottawa, Ontario
K1A 0K2

Défense nationale

Quartier général de la Défense nationale
Ottawa (Ontario)
K1A 0K2

SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION

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

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

Comments - Commentaires

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À :

By e-mail to: - Par courriel au :
DLP53BidsReceiving.DAAT53Receptiondessoumissions@forces.gc.ca

Solicitation Closes - L'invitation prend fin

At - à :
2:00 PM - 14:00

On - le :
06-07-2022

Time Zone - Fuseau Horaire :
Eastern Standard Time (EST)
Heure normale de l'Est (HNE)

Title - Sujet	**Amendment No. - N° modif.**
HYDRAULIC POWER TOOL KIT AND UNDERWATER HYDRAULIC POWER TOOL KIT REPLACEMENT- REMPLACEMENT KIT D'OUTILS HYDRAULIQUES ET KIT D'OUTILS HYDRAULIQUE SOUS-MARIN	002

Solicitation No. N° de l'invitation	**Date of Amendment Date de modification**
W8476-226527/A	05-25-2022

Address enquiries to: - Adresser toute demande de renseignements à :

Kyle Grundy

E-Mail Address - Courriel

Kyle.grundy@forces.gc.ca

Destination

See herein - Voir aux présentes

Instructions: Municipal taxes are not applicable. Unless otherwise specified herein all prices quoted must include all applicable Canadian customs duties, GST/HST, excise taxes and are to be delivered Delivery Duty Paid including all delivery charges to destination(s) as indicated. The amount of the Goods and Services Tax/Harmonized Sales Tax is to be shown as a separate item.

Instructions : Les taxes municipales ne s'appliquent pas. Sauf indication contraire, les prix indiqués doivent comprendre les droits de douane canadiens, la TPS/TVH et la taxe d'accise. Les biens doivent être livrés « rendu droits acquittés », tous frais de livraison compris, à la ou aux destinations indiquées. Le montant de la taxe sur les produits et services/taxe de vente harmonisée doit être indiqué séparément.

Delivery required Livraison exigée	**Delivery offered Livraison proposée**
See herein - Voir aux présentes	

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

Person authorized to sign on behalf of Vendor/Firm (type or print): |
La personne autorisée à signer au nom du fournisseur/de l'entrepreneur (taper ou écrire en caractères d'imprimerie) :

Name - Nom	**Title - Titre**
Signature	**Date**

THIS SOLICITATION AMENDMENT IS RAISED TO:

1. Provide clarification and answers to questions from potential suppliers;
2. Update Annex A SOW to update the weight of the tool.

QUESTIONS AND ANSWERS:

Question 6	With respect to the delivery of tool kits, can the equipment be shipped to the DND as items arrive from the manufacturer or do you wish for the successful bidder to hold/ consolidate/ deliver the tools to the DND as complete kits?
Answer 6	See Q003/A033 and Q005/A005
Question 7	A.1.2.1.5 - Will the DND accept a 1lb variance (heavier) of the tool spec'd in the tender?
Answer 7	No issues accepting 1lb variance (heavier)
Question 8	Is there a requirement for stainless steel couplers on the underwater hydraulic tools?
Answer 8	No requirement for stainless steel coupler.

ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME

STATEMENT OF WORK

FOR THE

HYDRAULIC POWER TOOL KIT AND UNDERWATER HYDRAULIC POWER TOOL KIT

NOTICE

This documentation has been reviewed by the technical authority and does not contain controlled goods. Disclosure notices and handling instructions originally received with the document must continue to apply.

AVIS

Cette documentation a été révisée par l'autorité technique et ne contient pas de marchandises contrôlées. Les avis de divulgation et les instructions de manutention reçues originalement doivent continuer de s'appliquer.

TABLE OF CONTENTS

1.0 SCOPE

1.1 Purpose

1.1.1 The purpose of this Statement of Work (SOW) is to define the work requirements for the Hydraulic Power Tool Kit (HPTK) Kit and Underwater Hydraulic Power Tool Kit (UHPTK), which is part of the Hydraulic Power Unit replacement (HPUR) project. The Canadian Armed Forces (CAF) Combat Engineers and Pioneers will be using these tools for a variety of tasks such as construction of shelters, demolition of structure, and removal of obstacles. This kit enhances the CAF mobility, counter-mobility, survivability, and general engineer support tasks.

1.2 Background

1.2.1 In 2017 The Government of Canada released a defence policy that outlined a level of ambition for the CAF. Canada's defence policy presents a new strategic vision for defence: Strong, Secure, Engaged. In order to meet these objectives, Canada needs an agile, multi-purpose, combat ready military with the equipment to support it. HPUR will enable the CAF to breach obstacles very quickly providing agility and flexibility to the forces, at home and abroad, regardless of the mission.

1.3 Intended Use

1.3.1 The intended use of the HPTK and UHPTK is to provide the Combat Engineers and Pioneers with the ability to do a variety of tasks such as construction of shelters, demolition of structure, and removal of obstacles.

1.4 Acronyms and Abbreviations

CA	Contracting Authority
CAF	Canadian Armed Forces
CDRL	Contract Data Requirements List
CFTO	Canadian Forces Technical Order
DID	Data Item Description
DND	Department of National Defence
EHS	Environmental Health and Safety
GPM	Gallons per minute
HPU	Hydraulic Power Unit
HPTK	Hydraulic Power Tool Kit
UHPTK	Underwater Hydraulic Power Tool Kit
HPUR	Hydraulic Power Unit Replacement
HTMA	Hydraulic Tool Manufacturers Association
IAW	In Accordance With
ILS	Integrated Logistics Support
ILSM	Integrated Logistics Support Manager

IP	Intellectual Property
ISO	International Organization for Standardization
ITAR	International Traffic in Arms Regulations
LPM	Liters per minute
NATO	North Atlantic Treaty Organization
NCAGE	NATO Commercial and Government Entity
NPT	National Pipe Tapered
NSN	NATO Stock Number
OEM	Original Equipment Manufacturer
OQRC	Operator Quick Reference Card
PPB	Provisioning Parts Breakdown
PSI	Pounds per square inch
PSPC	Public Service and Procurement Canada
RPM	Revolution Per Minute
SDS	Safety Data Sheet
SOW	Statement of Work
SPTD	Supplementary Provisioning Technical Documentation
TA	Technical Authority
TLAD	Top Level Assembly Drawing

2.0 APPLICABLE DOCUMENTS

2.1 References

2.1.1 Whereas mentioned, the following Standards must be used for the preparation of deliverables to the extent specified in this SOW.

GOVERNMENT FURNISHED INFORMATION

REFERENCE NUMBER	PROMULGATION DATE	REFERENCE TITLE
D-01-100-204/SF-000	2000-10-31	SPECIFICATION - PREPARATION OF PREVENTIVE MAINTENANCE INSTRUCTIONS
D-01-100-205/SF-000	2000-10-31	SPECIFICATION - PREPARATION OF CORRECTIVE MAINTENANCE INSTRUCTION
D-01-100-207/SF-002	1996-07-12	SPECIFICATION - PREPARATION OF INTERIM ILLUSTRATED PARTS MANUALS FOR LAND EQUIPMENTS
D-01-400-001/SG-000	2018-01-31	STANDARD - ENGINEERING DRAWING PRACTICES
D-01-400-002/SF-000	2018-02-23	SPECIFICATION LEVELS OF ENGINEERING DRAWINGS
D-LM-008-001/SF-001	1983-02-03	METHODS OF PACKAGING
D-LM-008-002/SF-001	1991-08-01	SPECIFICATION FOR MARKING FOR STORAGE AND SHIPMENT
D-LM-008-011/SF-001	1988-11-10	PREPARATION AND USE OF PACKAGING REQUIREMENTS CODES

COMMERCIALLY AVAILABLE

REFERENCE NUMBER	PROMULGATION DATE	REFERENCE TITLE
AMS-STD-595	LATEST EDITION	COLORS USED IN GOVERNMENT PROCUREMENT
R.S.C., 1985, C. H-3	1985	HAZARDOUS PRODUCTS ACT
SOR/99-7	1998	OZONE-DEPLETING SUBSTANCES REGULATIONS, 1998
SAE J517	2017	HYDRAULIC HOSE
SAE J1475	2014	HYDRAULIC HOSE FITTING FOR MARINE APPLICATIONS
SAE J1942	2009	HOSE AND HOSE ASSEMBLIES FOR MARINE APPLICATIONS
SAE J1942-1	2019	QUALIFIED HOSES FOR MARINE APPLICATIONS

2.2 Order of Precedence

2.2.1 In the event of conflict between the content in this SOW and the referenced documents, the content of this SOW will take precedence.

3.0 PROJECT MANAGEMENT

3.1 Project Meetings

3.1.1 Meeting Organization and Coordination

3.1.1.1 The Contractor's Project Manager must be present at the Kick-off Meeting, and at other meetings when requested by Canada.

3.1.2 Kick-off Meeting

3.1.2.1 The Contractor must hold and chair a Kick-off Meeting (via Teleconference) no later than 21 calendar days after contract award to review and secure a common understanding of the following:

3.1.2.1.1 The requirements of the Contract;

3.1.2.1.2 The requirements of the SOW;

3.1.2.1.3 General overview of the project, risks, schedule and communication channels to follow, and

3.1.2.1.4 Other contractual and programmatic issues associated with the project as agreed between the TA, CA and the Contractor.

3.1.2.2 During the Kick-off Meeting, the Contractor must provide a Top Level Assembly Drawing (TLAD).

3.1.2.2.1 For the HPTK IAW CDRL HPTK-ILS-201 at Appendix 3.6 (page 27) and its associated DID HPTK-ILS-202 at Appendix A4.6 (page 43) to this ANNEX A.

3.1.2.2.2 For the UHPTK IAW CDRL UHPTK-ILS-202 at Appendix A3.6 (page 28) and its associated DID UHPTK-ILS-202 at Appendix A3.6 (page 44) to this ANNEX A.

3.1.2.3 Refer to Meeting Documentation requirements found at ANNEX A PARA 3.1.4.

3.1.3 Other meetings

3.1.3.1 The Contractor and the TA may schedule informal reviews, such as teleconferences, video conferences, briefings and technical interchange meetings, to help achieve the requirements of the Contract.

3.1.4 Meeting Documentation

3.1.4.1 The Contractor must prepare and deliver a meeting agenda for all formal meetings and conferences, and prepare and deliver the meeting minutes afterwards.

3.1.4.1.1 For the HPTK the Contractor must provide the Meeting Agenda(s) IAW CDRL HPTK-PM-001 at Appendix A3.4 (page 25) and its associated DID HPTK-PM-002 at Appendix A4.4 (page 39) to this ANNEX A.

3.1.4.1.2 For the UHPTK the Contractor must provide the Meeting Agenda(s) IAW CDRL UHPTK-PM-003 at Appendix A3.4 (page 26) to ANNEX A and its associated DID UHPTK-PM-004 at Appendix A4.4 (page 41) to this ANNEX A.

3.1.4.2 No change in the interpretation of the SOW, Technical Specification, cost, and schedule, as defined in the Contract, may be authorized by the minutes of a meeting. Such changes will require formal contract amendment by the CA.

4.0 INTEGRATED LOGISTICS SUPPORT (ILS)

4.1 Instruments, Decals, Data Plates and Warnings

4.1.1 The Contractor must deliver all instruments, decals and data plates marked in metric units.

4.2 Technical Publication Package

4.2.1 The Contractor must prepare and deliver the following Technical Publications:

4.2.1.1 Operator Quick Reference Card

4.2.1.1.1 For the HPTK the Contractor must provide an Operator Quick Reference Card IAW CDRL HPTK-ILS-209 at Appendix A3.14 (page 35) and its associated DID HPTK-ILS-209 at Appendix A4.14 (page 59) to ANNEX A.

4.2.1.1.2 For the UHPTK the Contractor must provide an Operator Quick Reference Card IAW CDRL UHPTK-ILS-210 at Appendix A3.14 (page 36) and its associated DID UHPTK-ILS-210 at Appendix A4.14 (page 61) to ANNEX A.

4.2.2 Supplementary Information

4.2.2.1 The Contractor must provide supplementary information, in the portions of text that require it, with one or more of the following notices, in the order listed:

4.2.2.1.1 **Danger.** The danger advisory will be used to draw attention to an extreme, violent and continuous hazard to life;

4.2.2.1.2 **Warning.** The warning advisory will be used to emphasize an operating or maintenance procedure, practice, condition, statement, which if not strictly observed, could result in injury to or death of personnel;

4.2.2.1.3 **Caution.** The caution advisory will be used to emphasize an operating or maintenance procedure, practice, condition, statement, which if not strictly observed, could result in maintenance, damage to or destruction of equipment, loss of mission effectiveness or long-term health hazards to personnel;

4.2.2.1.4 **Note.** The note will be used to point out a procedure, event or practice that it is desirable to highlight; and,

4.2.2.1.5 **Example.** The example will be used when required to clarify the preceding text.

4.3 Data Deliverable Format

4.3.1 Unless otherwise specified as a specific requirement, the Contractor must deliver all of the soft copies of data deliverables, in formats compatible with the office software currently in use by the DND as listed:

4.3.1.1 Microsoft (MS) Windows 7 & 10 Enterprise Operating System (OS), Service Pack 1;

4.3.1.2 MS Internet Explorer (IE) 9.0 with 256 Bit Encryption;

4.3.1.3 MS Office Professional Plus 2013 (Word, Excel, Access, PowerPoint and Outlook);

4.3.1.4 Adobe Acrobat X; and

4.3.1.5 WinZip 8.1 SR-1;

4.4 Identification Labels for Storage & Shipment and Packaging Codes

4.4.1 The Contractor must supply all parts and equipment, packaged and packed as per D-LM-008-001/SF-001 following :

4.4.1.1 Level C Minimum Military Package;

4.4.1.2 Level C Minimum Military Pack;

4.4.2 The Contractor must label all packaging, produced under 4.4.1 above, as per D-LM-008-002/SF-001, using D-LM-008-011/SF-001 to prepare the required codes for packaging and preservation.

4.4.3 The Contractor must provide Identification Labels for Storage & Shipment and Packaging Codes.

4.4.3.1 For the HPTK IAW CDRL HPTK-ILS-203 at Appendix A3.8 (page 29) to ANNEX A, and its associated DID HPTK-ILS-204 at Appendix A4.8 (page 45) to this ANNEX A.

4.4.3.2 For the UHPTK IAW CDRL UHPTK-ILS-204 at Appendix A3.9 (page 30) to ANNEX A, and its associated DID UHPTK-ILS-204 at Appendix A4.9 (page 46) to this ANNEX A.

4.5 Provisioning Documentation

4.5.1 The Provisioning Documentation (PD) lists and describes in detail the parts that make up the HPTK AND UHPTK as well as all specialized and specific items required to support the use and maintenance of the HPTK AND UHPTK. The PD allows the HPTK AND UHPTK's Integrated Logistics Support Manager (ILSM) to plan and implement a sparing and support strategy.

4.5.2 Included in the PD are all the procurable parts — either from the Contractor or a third-party — of the HPTK AND UHPTK to the Lowest Replaceable Unit (LRU). Also considered procurable parts are the consumables required to operate and maintain the HPTK AND UHPTK (chemicals, specific lubricants, etc.) and specialized equipment (special tools, training aids, transport containers, etc.) specific to the HPTK AND UHPTK.

4.5.3 The Contractor must prepare and deliver the following Provisioning Documentation:

4.5.3.1 Provisioning Parts Breakdown

4.5.3.1.1 For the HPTK the Contractor must provide a Provisioning Parts Breakdown IAW CDRL HPTK-ILS-205 at Appendix A3.10 (page 31) and its associated DID HPTK-ILS-206 at Appendix A4.10 (page 49) to this ANNEX A.

4.5.3.1.2 For the UHPTK the Contractor must provide a Provisioning Parts Breakdown IAW CDRL UHPTK-ILS-206 at Appendix A3.10 (page 32) and its associated DID UHPTK-ILS-206 at Appendix A3.10 (page 52) to this ANNEX A.

4.5.3.2 Supplementary Provisioning Technical Documentation

4.5.3.2.1 For the HPTK the Contractor must provide Supplementary Provisioning Technical Documentation IAW CDRL HPTK-ILS-207 at Appendix A3.12 (page 33) and its associated DID HPTK-ILS-208 at Appendix A4.12 (page 55) to this ANNEX A.

4.5.3.2.2 For the UHPTK the Contractor must provide Supplementary Provisioning Technical Documentation IAW CDRL UHPTK-ILS-208 at Appendix A3.12 (page 34) and its associated DID UHPTK-ILS-208 at Appendix A4.12 (page 57) to this ANNEX A.

4.6 EHS Packaging Labels and SDS

4.6.1 The Contractor must label and ship goods falling within the Hazardous Products Act, R.S.C. 1985, C. H-3 and regulation(s) there under, in accordance with the said Act and regulation(s).

4.6.1.1 The Contractor must ship goods accompanied by the required Safety Data Sheet(s) (SDS), completed in both English and Canadian French.

4.6.1.2 The Contractor must clearly identify the contents of the hazardous material with labels, and the SDS must explain what those hazards are.

5.0 TECHNICAL REQUIREMENTS

5.1 Overview

5.1.1 The Contractor must delivery equipment that meet the specified requirements, for each applicable item listed under the contract, as stated in:

5.1.1.1 A1.0 APPENDIX: Hydraulic Power Tool Kit; and/or

5.1.1.2 A2.0 APPENDIX: Underwater Hydraulic Power Tool Kit

Deliverable Table

Item	Item Description	Qty
1	HYDRAULIC POWER TOOL KIT (PARA APPENDIX 1.0) INCLUDING OF: A. LIGHT HYDRAULIC BREAKER (PARA APPENDIX 1.2.1) B. MEDIUM HYDRAULIC BREAKER (PARA APPENDIX 1.2.2) C. HYDRAULIC WOOD CUTTING CHAINSAW (PARA APPENDIX 1.2.3) D. HYDRAULIC HAMMER DRILL (PARA APPENDIX 1.2.4) E. HYDRAULIC BULL-NOSE GRINDER (PARA APPENDIX 1.2.5) F. HYDRAULIC IMPACT WRENCH (PARA APPENDIX 1.2.6) G. HYDRAULIC CUT-OFF SAW (PARA APPENDIX 1.2.7) H. HYDRAULC SINKER DRILL (PARA APPENDIX 1.2.8) I. TWO PERSON HYDRAULIC EARTH AUGER (PARA APPENDIX 1.2.9) J. HYDRAULIC POST DRIVER (PARA APPENDIX 1.2.10)	108
2	UNDERWATER HYDRAULIC POWER TOOL KIT (PARA APPENDIX 2.0) INCLUDING OF: A. UNDERWATER LIGHT HYDRAULIC BREAKER (PARA APPENDIX 2.2.1) B. UNDERWATER HYDRAULIC SINKER DRILL (PARA APPENDIX 2.2.2) C. UNDERWATER HYDRAULIC HAMMER DRILL (PARA APPENDIX 2.2.3) D. UNDERWATER IMPACT WRENCH (PARA APPENDIX 2.2.4) E. UNDERWATER HYDRAULIC CHAINSAW (PARA APPENDIX 2.2.5) F. UNDERWATER HYDRAULIC CUT-OFF SAW (PARA APPENDIX 2.2.6) G. UNDERWATER HEAVY HYDRAULIC BREAKER (PARA APPENDIX 2.2.7) H. UNDERWATER HYDRAULIC GRINDER (PARA APPENDIX 2.2.8)	11

A1.0 APPENDIX: HYDRAULIC POWER TOOL KIT TECHNICAL SPECIFICATION

A1.1 System Requirements

A1.1.1 General

A1.1.1.1 The Hydraulic Power tool Kits (HPTK) must come with all couplers installed and ready to use with a HPU.

A1.1.1.2 Bidders required to meet the requirements in one of the measurement systems only (imperial or SI). Bidders cannot are not allowed to move between the two measurement systems.

A1.1.1.3 The HPTK must be delivered as a kit consisting of the following items below and is further described in detail under the **System Component Requirements** section:

A1.1.1.3.1 1 X LIGHT HYDRAULIC BREAKER

A1.1.1.3.2 1 X MEDIUM HYDRAULIC BREAKER

A1.1.1.3.3 1 X HYDRAULIC WOOD CUTTING CHAINSAW

A1.1.1.3.4 1 X HYDRAULIC HAMMER DRILL

A1.1.1.3.5 1 X HYDRAULIC BULL-NOSE GRINDER

A1.1.1.3.6 1 X HYDRAULIC IMPACT WRENCH

A1.1.1.3.7 1 X HYDRAULIC CUT-OFF SAW

A1.1.1.3.8 1 X HYDRAULC SINKER DRILL

A1.1.1.3.9 1 X TWO PERSON HYDRAULIC EARTH

A1.1.1.3.10 1 X HYDRAULIC POST DRIVER

A1.2 System Components Requirements

A1.2.1 LIGHT HYDRAULIC BREAKER TECHNICAL SPECIFICATION

A1.2.1.1 The light hydraulic breaker input flow must be 7-9 gpm (26.5 – 34 lpm) @ 1500 – 2000 PSI (103 – 138 Bar).

A1.2.1.2 The light hydraulic breaker must deliver 1800 – 2200 blows / min.

A1.2.1.3 The light hydraulic breaker must use flush face 3/8 inch quick disconnection couplers.

A1.2.1.4 The light hydraulic breaker must be compatible with tool bit size 1-1/4 x 6 inch hex.

A1.2.1.5 The light hydraulic breaker must not weigh no more than 24.4kg (45lbs).

A1.2.2 MEDIUM HYDRAULIC BREAKER TECHNICAL SPECIFICATION

A1.2.2.1 The medium hydraulic breaker input flow must be 7-9 gpm (26.5 – 34 lpm) @ 1500 – 2000 PSI (103 – 138 Bar).

A1.2.2.2 The medium hydraulic breaker must deliver 0 – 1300 blows / min.

A1.2.2.3 The medium hydraulic breaker must use flush face 3/8 inch quick disconnection couplers.

A1.2.2.4 The medium hydraulic breaker must be compatible with tool bit size 1-1/4 x 6 inch hex.

A1.2.2.5 The medium hydraulic breaker must not weigh no more than 30.4kg (67lbs)

A1.2.3 HYDRAULIC WOOD CUTTING CHAINSAW TECHNICAL SPECIFICATION

A1.2.3.1 The hydraulic wood cutting chainsaw input flow must be 7-9 gpm (26.5 – 34 lpm) @ 1500 – 2000 PSI (103 – 138 Bar).

A1.2.3.2 The hydraulic wood cutting chainsaw cutting capacity must be 20 inch or more.

A1.2.3.3 The hydraulic wood cutting chainsaw must use flush face 3/8 inch quick disconnection couplers.

A1.2.4 HYDRAULIC HAMMER DRILL TECHNICAL SPECIFICATION

A1.2.4.1 The hydraulic hammer drill input flow must be 7-9 gpm (26.5 – 34 lpm) @ 1500 – 2000 PSI (103 – 138 Bar).

A1.2.4.2 The hydraulic hammer drill performance must be min 300 rpm.

A1.2.4.3 The hydraulic hammer drill must use flush face 3/8 inch quick disconnection couplers.

A1.2.4.4 The hydraulic hammer drill must be compatible with drill bit size #736 Skil Hex.

A1.2.4.5 The hydraulic hammer drill must weigh no more than 20.4kg (45lbs).

A1.2.5 HYDRAULIC BULL-NOSE GRINDER TECHNICAL SPECIFICATION

A1.2.5.1 The hydraulic bull-nose grinder input flow must be 5-10 gpm (18.9 – 37.9 lpm) @ 1500 – 2000 PSI (103 – 138 Bar).

A1.2.5.2 The hydraulic bull-nose grinder must use flush face 3/8 inch quick disconnection couplers.

A1.2.5.3 The hydraulic bull-nose grinder must be no more than 7.3kg (16lbs).

A1.2.6 HYDRAULIC IMPACT WRENCH TECHNICAL SPECIFICATION

A1.2.6.1 The hydraulic impact wrench input flow must be 4-12 gpm (15 – 45.4 lpm) @ 1500 – 2000 PSI (103 – 138 Bar).

A1.2.6.2 The hydraulic impact wrench max torque performance must be min 1200 ft lb / 1632 Nm

A1.2.6.3 The hydraulic impact wrench must use flush face 3/8 inch quick disconnection couplers.

A1.2.6.4 The hydraulic impact wrench must be compatible with ¾ inch square drives

A1.2.6.5 The hydraulic impact wrench must weigh no more than 9.5 kg (21 lbs).

A1.2.7 HYDRAULIC CUT-OFF SAW TECHNICAL SPECIFICATION

A1.2.7.1 The hydraulic cut-off saw input flow must be 7-9 gpm (26.5– 34.1 lpm) @ 1500 – 2000 PSI (103 – 138 Bar).

A1.2.7.2 The hydraulic cut-off saw must have a cutting depth of 4-3/4 iinch (120.6 mm) min.

A1.2.7.3 The hydraulic cut-off saw must use 14 inch (355.6mm) cutting blades

A1.2.7.4 The hydraulic cut-off saw must use flush face 3/8 inch quick disconnection couplers.

A1.2.7.5 The hydraulic cut-off saw must weigh no more than 11.8kg (26lbs).

A1.2.8 HYDRAULIC SINKER DRILL TECHNICAL SPECIFICATION

A1.2.8.1 The hydraulic sinker drill input flow must be 7-9 gpm (26.5– 34.1 lpm) @ 1500 – 2000 PSI (103 – 138 Bar).

A1.2.8.2 The hydraulic sinker drill must be able to drill 3’ (76.2mm) hole diameter 240 inch (6096mm) deep.

A1.2.8.3 The hydraulic sinker drill must use flush face 3/8 inch quick disconnection couplers.

A1.2.8.4 The hydraulic sinker drill must use Hex Shank (1 inch x 4-1/4 inch).

A1.2.8.5 The hydraulic sinker drill must weigh no more than 34.5kg (76lbs).

A1.2.9 **TWO PERSON HYDRAULIC EARTH AUGER TECHNICAL SPECIFICATION**

A1.2.9.1 The two person hydraulic earth auger must input flow must be 7-9 gpm (26.5–34.1 lpm) @ 1500 – 2000 PSI (103 – 138 Bar).

A1.2.9.2 The two person hydraulic earth auger must be able to create diameter up to 18 inch (452mm) and drill 72 inch (1828.8mm) deep or more with extension bits.

A1.2.9.3 The two person hydraulic earth auger must have an output torque of 250 ft. lb. (339 Nm) minimum.

A1.2.9.4 The two person hydraulic earth auger must include and use flush face 3/8 inch quick disconnection couplers.

A1.2.9.5 The two person hydraulic earth auger must weigh no more than 27.7kg (61lbs).

A1.2.9.6 The two person hydraulic earth auger must include the auger bits and attachment to drill to 72 inch (1828.8mm) deep per unit delivered.

A1.2.10 **SPECIFICATION HYDRAULIC POST DRIVER TECHNICAL SPECIFICATION**

A1.2.10.1 The hydraulic post driver input flow must be 7-12 gpm (26.5– 45.4 lpm) @ 1500 – 2000 PSI (103 – 138 Bar).

A1.2.10.2 The hydraulic post driver must be able to deliver 1200-1800 blows per min.

A1.2.10.3 The hydraulic post driver must use flush face 3/8 inch quick disconnection couplers.

A1.2.10.4 The hydraulic post driver must weigh no more than 32.2kg (71lbs)

A1.2.10.5 The hydraulic post driver must come with attachment(s) to be able to drive 1.75 inch (44.5mm) wide angle iron (L shape) into the ground.

A2.0 A PPENDIX: UNDERWATER HYDRAULIC POWER TOOL KIT TECHNICAL SPECIFICATION

A2.1 System Requirements

A2.1.1 General

A2.1.1.1 The underwater hydraulic power tool kit (UHPTK) must be able to operate underwater for at least two hours.

A2.1.1.2 The UHPTK must come with all couplers installed and ready to use with a HPU.

A2.1.1.3 The UHPTK must be delivered as a kit consisting of the following items below and is further described in detail under the **System Component Requirements** section:

A2.1.1.3.1 1 X UNDERWATER LIGHT HYDRAULIC BREAKER

A2.1.1.3.2 1 X UNDERWATER HYDRAULIC SINKER DRILL

A2.1.1.3.3 1 X UNDERWATER HYDRAULIC HAMMER DRILL

A2.1.1.3.4 1 X UNDERWATER HYDRAULIC IMPACT WRENCH

A2.1.1.3.5 1 X UNDERWATER HYDRAULIC CHAINSAW

A2.1.1.3.6 1 X UNDERWATER HYDRAULIC CUT-OFF SAW

A2.1.1.3.7 1 X UNDERWATER HEAVY HYDRAULIC BREAKER

A2.1.1.3.8 1 X UNDERWATER HYDRAULIC GRINDER

A2.2 System Components Requirements

A2.2.1 UNDERWATER MEDIUM HYDRAULIC BREAKER

A2.2.1.1 The underwater medium hydraulic breaker input flow must be 7-9 gpm (26.5 – 34 lpm) @ 1500 – 2000 PSI (103 – 138 Bar).

A2.2.1.2 The underwater medium hydraulic breaker must deliver 1000 – 1800 blows / min.

A2.2.1.3 The underwater medium hydraulic breaker must include and be compatible with flush face 3/8 inch quick disconnection couplers.

A2.2.2 UNDERWATER HYDRAULIC SINKER DRILL

A2.2.2.1 The underwater hydraulic sinker drill input flow must be 7-9 gpm (26.5– 34.1 lpm) @ 1500 – 2000 PSI (103 – 138 Bar).

A2.2.2.2 The underwater hydraulic sinker drill must be able to drill 3’ (76.2mm) hole diameter 240 inch (6096mm) deep.

A2.2.2.3 The underwater hydraulic sinker drill must include and be compatible with flush face 3/8 inch quick disconnection couplers.

A2.2.3 UNDERWATER HYDRAULIC HAMMER DRILL

A2.2.3.1 The underwater hydraulic hammer drill input flow must be 7-9 gpm (26.5 – 34 lpm) @ 1500 – 2000 PSI (103 – 138 Bar).

A2.2.3.2 The underwater hydraulic hammer drill performance must be min 300 rpm.

A2.2.3.3 The underwater hydraulic hammer drill must include and be compatible with flush face 3/8 inch quick disconnection couplers.

A2.2.3.4 The underwater hydraulic hammer drill must be compatible with drill bit size #736 Skil Hex.

A2.2.4 UNDERWATER HYDRAULIC IMPACT WRENCH

A2.2.4.1 The underwater hydraulic impact wrench input flow must be 4-12 gpm (15 – 45.4 lpm) @ 1000 – 2000 PSI (69– 138 Bar).

A2.2.4.2 The underwater hydraulic impact wrench max torque performance must be min 1200 ft lb / 1632 Nm

A2.2.4.3 The underwater hydraulic impact wrench must include and be compatible with flush face 3/8 inch quick disconnection couplers.

A2.2.4.4 The underwater hydraulic impact wrench must be compatible with ¾ inch / 19mm square drives

A2.2.5 **UNDERWATER HYDRAULIC DIAMOND CHAINSAW**

A2.2.5.1 The underwater hydraulic diamond chainsaw input flow must be 7-9 gpm (26.5 – 34 lpm) @ 1000 – 2000 PSI (69 – 138 Bar).

A2.2.5.2 The underwater hydraulic diamond chainsaw cutting capacity must be 18 inch or more.

A2.2.5.3 The underwater hydraulic diamond chainsaw must include bar and diamond chain per unit.

A2.2.5.4 The underwater hydraulic diamond chainsaw must include and be compatible with flush face 3/8 inch quick disconnection couplers.

A2.2.6 **UNDERWATER HYDRAULIC CUT-OFF SAW**

A2.2.6.1 The underwater hydraulic cut-off saw input flow must be 10-15 gpm (38– 57 lpm) @ 1500 – 2000 PSI (103 – 138 Bar).

A2.2.6.2 The underwater hydraulic cut-off saw must have a cutting depth of 3 inch (76.2mm) min.

A2.2.6.3 The underwater hydraulic cut-off saw must have an arbor of 1 inch / (25.4mm).

A2.2.6.4 The underwater hydraulic cut-off saw must include a 10 inch (254mm) diamond cutting blades for masonry and abrasive blade for metals.

A2.2.6.5 The underwater hydraulic cut-off saw must include and be compatible with flush face 3/8 inch quick disconnection couplers.

A2.2.7 **UNDERWATER HEAVY HYDRAULIC BREAKER**

A2.2.7.1 The underwater heavy hydraulic breaker input flow must be 7-9 gpm (26.5 – 34 lpm) @ 1500 – 2000 PSI (103 – 138 Bar).

A2.2.7.2 The underwater heavy hydraulic breaker must deliver 1000 – 1200 blows / min.

A2.2.7.3 The underwater heavy hydraulic breaker must include and be compatible with flush face 3/8 inch quick disconnection couplers.

A2.2.8 **UNDERWATER HYDRAULIC GRINDER**

A2.2.8.1 The underwater hydraulic grinder input flow must be 4-12 gpm (15.1 – 45.4 lpm) @ 1000 – 2000 PSI (69 – 138 Bar).

A2.2.8.2 The underwater hydraulic grinder must use and include a metal and masonry 9 inch / (228.6mm) grinder wheel.

A2.2.8.3 The underwater hydraulic grinder must use and include flush face 3/8 inch quick disconnection couplers.

A3.0 APPENDIX: CONTRACT DATA REQUIREMENTS LIST

A3.1 HPTK CDRL Item List

CDRL #	Title	DID #
HPTK -PM-001	Meeting Agenda	HPTK -PM-001
HPTK -ILS-201	Top Level Assembly Drawing	HPTK -ILS-201
HPTK -ILS-203	Identification Labels for Storage & Shipment and Packaging Codes	HPTK -ILS-203
HPTK -ILS-205	Provisioning Parts Breakdown	HPTK -ILS-205
HPTK -ILS-207	Supplementary Provisioning Technical Documentation	HPTK -ILS-207
HPTK -ILS-209	Operator Quick Reference Card	HPTK -ILS-209

A3.2 UHPTK CDRL Item List

CDRL #	Title	DID #
UHPTK -PM-002	Meeting Agenda	UHPTK -PM-002
UHPTK -ILS-202	Top Level Assembly Drawing	UHPTK -ILS-202
UHPTK -ILS-204	Identification Labels for Storage & Shipment and Packaging Codes	UHPTK -ILS-204
UHPTK -ILS-206	Provisioning Parts Breakdown	UHPTK -ILS-206
UHPTK -ILS-208	Supplementary Provisioning Technical Documentation	UHPTK -ILS-208
UHPTK -ILS-210	Operator Quick Reference Card	UHPTK -ILS-210

A3.3 **CDRL Table Definitions**

The following section defines the various blocks of information found on the CDRL forms:

BLOCK 1 – SYSTEM / ITEM
Provides the name of the System or Item for which the CDRL applies.

BLOCK 2 – ITEM NUMBER
The Item Number is a sequential three-digit number to uniquely identify the individual data item (CDRL number). Note that the 001-099 series is reserved to Project Management (PM) CDRLs, the 101-199 series is reserved to Systems Engineering (SE) CDRLs and the 201-299 series is reserved to Integrated Logistics Support (ILS) CDRLs.

BLOCK 3 - TITLE OR DESCRIPTION OF DATA
The title of the data item being referred to in this CDRL.

BLOCK 4 - AUTHORITY (DATA ITEM NUMBER)
Indicates the Data Item Description (DID) number to which this CDRL refers.

BLOCK 5 - CONTRACT REFERENCE
The specific paragraph number of the Contract Demand, Statement of Work, Request for Proposal, Specification, or other applicable document to assist in identifying the work effort associated with the data item.

BLOCK 6 - FREQUENCY
This block indicates the frequency of the delivered data. The following frequency codes are used:

ANNLY	Annually
ASGEN	As generated
ASREQ	As required
BI-MO	Every 2 months
BI-WK	Every2 weeks
DAILY	Daily
MNTHY	Monthly
ONE/R	One time with revisions
OTIME	One time
QRTLY	Quarterly
R/ASR	Revisions as required
SEMIA	Semi-annually
WKLY	Weekly

BLOCK 7 – REQUIRING OFFICE
Identifies the technical office of primary interest responsible for defining the data requirement, reviewing, acceptance and approval of the data item, and ensuring the adequacy of the delivered data.

BLOCK 8 – SUBMISSION SCHEDULE

DATE OF 1ST SUBMISSION - The initial submission date or associated constraint for the 1st submission of the data item is indicated in this block using typical abbreviations as listed above under Block 11.

DATE OF SUBSEQUENT SUBMISSION / EVENT - The date(s) of subsequent submission(s) or associated constraint(s) of the data item is indicated in this block.

BLOCK 9 - DISTRIBUTION AND ADDRESSEES

Indicates the addressees and the respective number of copies (hard copies and soft copies separately), for either the draft or first submissions (Sub-Block “Draft”), and for the final or subsequent submissions (Sub-Block “Final”), for which the data item is required.

A3.4 **CDRL – Meeting Agenda**

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First Submission: The Contractor must provide a draft Meeting Agenda for review no later than seven (7) calendar days prior to each meeting.

Response Time: Comments on the draft Meeting Agenda, and additions and deletions of discussion items, will be provided by Canada no later than five (5) calendar days after receipt of the soft copy submission.

Subsequent Submission: The Contractor must provide a revised Meeting Agenda, addressing Canada’s comments, in soft copy one (1) calendar day prior to each meeting, and in hard copy at the meeting.</td><td colspan="2">9. DISTRIBUTION and ADDRESSEES</td></tr>
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A3.5 **CDRL – Meeting Agenda**

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Subsequent Submission: The Contractor must provide a revised Meeting Agenda, addressing Canada’s comments, in soft copy one (1) calendar day prior to each meeting, and in hard copy at the meeting.</td><td>9. DISTRIBUTION and ADDRESSEES
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A3.6 **CDRL – Top Level Assembly Drawing**

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First Submission: The Contractor must provide a draft TLAD for review by Canada during the Kick-Off Meeting.

Response Time: Comments on the draft TLAD will be provided by Canada no later than seven (7) calendar days after receipt of the hard and soft copy submission.

Subsequent Submission(s): The Contractor must provide a revised TLAD, addressing Canada’s comments, for review and possible acceptance no later than seven (7) calendar days after the receipt of Canada’s comments.

Response Time: Comments or acceptance of the revised TLAD will be provided by Canada no later than seven (7) calendar days after receipt of the hard and soft copy submission.</td><td>9. DISTRIBUTION and ADDRESSEES
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A3.7 **CDRL – Top Level Assembly Drawing**

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A3.8 **CDRL – Identification Labels for Storage & Shipment and Packaging Codes**

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First Submission (Labels): The Contractor must provide draft Identification Labels for Storage & Shipment designs for review by Canada no later than 42 calendar days after the Kick-off Meeting.

Response Time: Comments on the draft Identification Labels for Storage & Shipment designs will be provided by Canada no later than 14 calendar days after receipt of the soft copy submission.

Subsequent Submission(s): The Contractor must provide revised Identification Labels for Storage & Shipment designs, addressing Canada’s comments, for review and possible acceptance no later than 14 calendar days after receipt of Canada’s comments.

Response Time: Comments or acceptance of the revised Identification Labels for Storage & Shipment designs will be provided by Canada no later than 14 calendar days after receipt of the soft copy submission.

First Submission (Codes): The Contractor must provide draft Packaging Codes forms for review by Canada no later than 35 calendar days after Canada provides the item’s NATO Stock Number.

Response Time: Comments on the draft Packaging Codes forms will be provided by Canada no later than 21 calendar days after receipt of the soft copy submission.

Subsequent Submission(s): The Contractor must provide revised Packaging Codes forms, addressing Canada’s comments, for review and possible acceptance no later than 14 calendar days after receipt of Canada’s comments.

Response Time: Comments or acceptance of the revised Packaging Codes forms will be provided by Canada no later than 14 calendar days after receipt of the soft copy submission.</td><td colspan="3">9. DISTRIBUTION and ADDRESSEES</td></tr>
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A3.9 **CDRL – Identification Labels for Storage & Shipment and Packaging Codes**

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First Submission (Labels): The Contractor must provide draft Identification Labels for Storage & Shipment designs for review by Canada no later than 42 calendar days after the Kick-off Meeting.

Response Time: Comments on the draft Identification Labels for Storage & Shipment designs will be provided by Canada no later than 14 calendar days after receipt of the soft copy submission.

Subsequent Submission(s): The Contractor must provide revised Identification Labels for Storage & Shipment designs, addressing Canada’s comments, for review and possible acceptance no later than 14 calendar days after receipt of Canada’s comments.

Response Time: Comments or acceptance of the revised Identification Labels for Storage & Shipment designs will be provided by Canada no later than 14 calendar days after receipt of the soft copy submission.

First Submission (Codes): The Contractor must provide draft Packaging Codes forms for review by Canada no later than 35 calendar days after Canada provides the item’s NATO Stock Number.

Response Time: Comments on the draft Packaging Codes forms will be provided by Canada no later than 21 calendar days after receipt of the soft copy submission.

Subsequent Submission(s): The Contractor must provide revised Packaging Codes forms, addressing Canada’s comments, for review and possible acceptance no later than 14 calendar days after receipt of Canada’s comments.

Response Time: Comments or acceptance of the revised Packaging Codes forms will be provided by Canada no later than 14 calendar days after receipt of the soft copy submission.</td><td colspan="3">9. DISTRIBUTION and ADDRESSEES</td></tr>
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A3.10 **CDRL – Provisioning Parts Breakdown**

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First Submission: The Contractor must provide a draft Provisioning Parts Breakdown for review by Canada no later than 28 calendar days after the kick-off meeting date.

Response Time: Comments on the draft Provisioning Parts Breakdown will be provided by Canada no later than 14 calendar days after receipt of the soft copy submission.

Subsequent Submission(s): The Contractor must provide a revised Provisioning Parts Breakdown, addressing Canada’s comments, for review and possible acceptance no later than 14 calendar days [after the receipt of Canada’s comments / before the Initial Provisioning Conference].

Response Time: Comments or acceptance of the revised Provisioning Parts Breakdown will be provided by Canada no later than 14 calendar days after receipt of the soft copy submission.</td><td colspan="2">9. DISTRIBUTION and ADDRESSEES</td></tr>
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A3.11 **CDRL – Provisioning Parts Breakdown**

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First Submission: The Contractor must provide a draft Provisioning Parts Breakdown for review by Canada no later than 28 calendar days after the kick-off meeting date.

Response Time: Comments on the draft Provisioning Parts Breakdown will be provided by Canada no later than 14 calendar days after receipt of the soft copy submission.

Subsequent Submission(s): The Contractor must provide a revised Provisioning Parts Breakdown, addressing Canada’s comments, for review and possible acceptance no later than 14 calendar days [after the receipt of Canada’s comments / before the Initial Provisioning Conference].

Response Time: Comments or acceptance of the revised Provisioning Parts Breakdown will be provided by Canada no later than 14 calendar days after receipt of the soft copy submission.</td><td colspan="3">9. DISTRIBUTION and ADDRESSEES</td></tr>
<tr><td rowspan="2">A. ADDRESSEE</td><td colspan="4">B. COPIES</td></tr>
<tr><td colspan="2">DRAFT</td><td colspan="2">FINAL</td></tr>
<tr><td></td><td>Hard Copy</td><td>Soft Copy</td><td>Hard Copy</td><td>Soft Copy</td></tr>
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A3.12 **CDRL – Supplementary Provisioning Technical Documentation**

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<tr><td colspan="5">1. SYSTEM / ITEM
HYDRAULIC POWER TOOL KIT</td></tr>
<tr><td>2. ITEM NUMBER
CDRL HPTK-ILS-207</td><td colspan="2">3. TITLE OR DESCRIPTION OF DATA
Supplementary Provisioning Technical Documentation</td><td colspan="2">4. AUTHORITY (Data Item Number)
DID HPTK-ILS-207</td></tr>
<tr><td>5. CONTRACT REFERENCE
SOW: PARA 4.5.3.2.1
DID: APP A4.12</td><td colspan="2">6. FREQUENCY
ONE/R</td><td colspan="2">7. REQUIRING OFFICE
DND TA</td></tr>
<tr><td colspan="3" rowspan="8">8. SUBMISSION SCHEDULE
First Submission: The Contractor must provide a draft Supplementary Provisioning Technical Documentation for review by Canada at the same time as the draft Provisioning Parts Breakdown submission.

Response Time: Comments on the draft Supplementary Provisioning Technical Documentation will be provided by Canada no later than 14 calendar days after receipt of the soft copy submission.

Subsequent Submission(s) The Contractor must provide a revised Supplementary Provisioning Technical Documentation, addressing Canada’s comments for review and possible acceptance no later than 14 calendar days after the receipt of Canada’s comments.

Response Time: Comments or acceptance of the revised Supplementary Provisioning Technical Documentation will be provided by Canada no later than 14 calendar days after receipt of the soft copy submission.</td><td colspan="2">9. DISTRIBUTION and ADDRESSEES</td></tr>
<tr><td rowspan="2">A. ADDRESSEE</td><td colspan="4">B. COPIES</td></tr>
<tr><td colspan="2">DRAFT</td><td colspan="2">FINAL</td></tr>
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A3.13 **CDRL – Supplementary Provisioning Technical Documentation**

<table>
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<tr><td colspan="7">1. SYSTEM / ITEM
UNDERWATER HYDRAULIC POWER TOOL KIT</td></tr>
<tr><td colspan="2">2. ITEM NUMBER
CDRL UHPTK -ILS-208</td><td colspan="2">3. TITLE OR DESCRIPTION OF DATA
Supplementary Provisioning Technical Documentation</td><td colspan="3">4. AUTHORITY (Data Item Number)
DID UHPTK -ILS-208</td></tr>
<tr><td colspan="2">5. CONTRACT REFERENCE
SOW: PARA 4.5.3.2.1
DID: APP A4.12</td><td colspan="2">6. FREQUENCY
ONE/R</td><td colspan="3">7. REQUIRING OFFICE
DND TA</td></tr>
<tr><td colspan="4" rowspan="2">8. SUBMISSION SCHEDULE
First Submission: The Contractor must provide a draft Supplementary Provisioning Technical Documentation for review by Canada at the same time as the draft Provisioning Parts Breakdown submission.

Response Time: Comments on the draft Supplementary Provisioning Technical Documentation will be provided by Canada no later than 14 calendar days after receipt of the soft copy submission.

Subsequent Submission(s) The Contractor must provide a revised Supplementary Provisioning Technical Documentation, addressing Canada’s comments for review and possible acceptance no later than 14 calendar days after the receipt of Canada’s comments.

Response Time: Comments or acceptance of the revised Supplementary Provisioning Technical Documentation will be provided by Canada no later than 14 calendar days after receipt of the soft copy submission.</td><td colspan="3">9. DISTRIBUTION and ADDRESSEES</td></tr>
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A3.14 **CDRL - Operator Quick Reference Card**

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<tr><td colspan="3">1. SYSTEM / ITEM
HYDRAULIC POWER TOOL KIT</td></tr>
<tr><td>2. ITEM NUMBER
CDRL HPTK-ILS-209</td><td>3. TITLE OR DESCRIPTION OF DATA
Operator Quick Reference Card</td><td>4. AUTHORITY (Data Item Number)
DID HPTK-ILS-209</td></tr>
<tr><td>5. CONTRACT REFERENCE
SOW PARA 4.2.1.1.1
DID: APP A4.14</td><td>6. FREQUENCY
ONE/R</td><td>7. REQUIRING OFFICE
DND TA</td></tr>
<tr><td colspan="2">8. SUBMISSION SCHEDULE

First Submission (English): The Contractor must provide a draft English Operator Quick Reference Card for review by Canada no later than 35 calendar days after the Kick-off Meeting.

Response Time: Comments on the draft English Operator Quick Reference Card will be provided by Canada no later than 14 calendar days after receipt of the hard copy submission.

Subsequent Submission(s) English: The Contractor must provide a revised English Operator Quick Reference Card, addressing Canada’s comments, for review and possible acceptance no later than 14 calendar days after the receipt of Canada’s comments.

Response Time: Comments or acceptance of the revised English Operator Quick Reference Card will be provided by Canada no later than 14 calendar days after receipt of the hard copy submission.

First Submission (Bilingual): The Contractor must provide a draft Bilingual Operator Quick Reference Card for review by Canada no later than 35 calendar days after the acceptance of the English Operator Quick Reference Card.

Response Time: Comments on the draft Bilingual Operator Quick Reference Card will be provided by Canada no later than 14 calendar days after receipt of the hard copy submission.

Subsequent Submission(s) (Bilingual): The Contractor must provide a revised Bilingual Operator Quick Reference Card, addressing Canada’s comments, for review and possible acceptance no later than 14 calendar days after the receipt of Canada’s comments.

Response Time: Comments or acceptance of the revised Bilingual Operator Quick Reference Card will be provided by Canada no later than 14 calendar days after receipt of the hard copy submission.</td><td>9. DISTRIBUTION and ADDRESSEES
<table>
<tr><th rowspan="2">A. ADDRESSEE</th><th colspan="4">B. COPIES</th></tr>
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A3.15 **CDRL - Operator Quick Reference Card**

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<tr><td colspan="3">1. SYSTEM / ITEM
UNDERWATER HYDRAULIC POWER TOOL KIT</td></tr>
<tr><td>2. ITEM NUMBER
CDRL UHPTK -ILS-210</td><td>3. TITLE OR DESCRIPTION OF DATA
Operator Quick Reference Card</td><td>4. AUTHORITY (Data Item Number)
DID UHPTK -ILS-210</td></tr>
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SOW PARA 4.2.1.1.1
DID: APP A4.14</td><td>6. FREQUENCY
ONE/R</td><td>7. REQUIRING OFFICE
DND TA</td></tr>
<tr><td colspan="2">8. SUBMISSION SCHEDULE
First Submission (English): The Contractor must provide a draft English Operator Quick Reference Card for review by Canada no later than 35 calendar days after the Kick-off Meeting.

Response Time: Comments on the draft English Operator Quick Reference Card will be provided by Canada no later than 14 calendar days after receipt of the <u>hard copy submission.</u>

Subsequent Submission(s) English: The Contractor must provide a revised English Operator Quick Reference Card, addressing Canada’s comments, for review and possible acceptance no later than 14 calendar days after the receipt of Canada’s comments.

Response Time: Comments or acceptance of the revised English Operator Quick Reference Card will be provided by Canada no later than 14 calendar days after receipt of the <u>hard copy submission</u>.

First Submission (Bilingual): The Contractor must provide a draft Bilingual Operator Quick Reference Card for review by Canada no later than 35 calendar days after the acceptance of the English Operator Quick Reference Card.

Response Time: Comments on the draft Bilingual Operator Quick Reference Card will be provided by Canada no later than 14 calendar days after receipt of the <u>hard copy submission</u>.

Subsequent Submission(s) (Bilingual): The Contractor must provide a revised Bilingual Operator Quick Reference Card, addressing Canada’s comments, for review and possible acceptance no later than 14 calendar days after the receipt of Canada’s comments.

Response Time: Comments or acceptance of the revised Bilingual Operator Quick Reference Card will be provided by Canada no later than 14 calendar days after receipt of the <u>hard copy submission</u>.</td><td>9. DISTRIBUTION and ADDRESSEES
<table>
<tr><th rowspan="2">A. ADDRESSEE</th><th colspan="4">B. COPIES</th></tr>
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A4.0 APPENDIX: DATA ITEM DESCRIPTION

A4.1 HPTK DID Item List

DID #	Title	CDRL #
HPTK -PM-003	Meeting Agenda	HPTK -PM-003
HPTK -ILS-203	Top Level Assembly Drawing	HPTK -ILS-203
HPTK -ILS-203	Identification Labels for Storage & Shipment and Packaging Codes	HPTK -ILS-203
HPTK -ILS-205	Provisioning Parts Breakdown	HPTK -ILS-205
HPTK -ILS-207	Supplementary Provisioning Technical Documentation	HPTK -ILS-207
HPTK -ILS-209	Operator Quick Reference Card	HPTK -ILS-209

A4.2 UHPTK DID Item List

DID #	Title	CDRL #
UHPTK -PM-004	Meeting Agenda	UHPTK -PM-004
UHPTK -ILS-202	Top Level Assembly Drawing	UHPTK -ILS-202
UHPTK -ILS-204	Identification Labels for Storage & Shipment and Packaging Codes	UHPTK -ILS-204
UHPTK -ILS-206	Provisioning Parts Breakdown	UHPTK -ILS-206
UHPTK -ILS-208	Supplementary Provisioning Technical Documentation	UHPTK -ILS-208
UHPTK -ILS-210	Operator Quick Reference Card	UHPTK -ILS-210

A4.3 DID Table 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 Data Item Description (DID) number, consisting of a sequential three-digit number and prefixed with an abbreviation code, to uniquely identify the DID. Note that the 001-099 series is reserved to Project Management (PM) DIDs, the 101-199 series is reserved to Systems Engineering (SE) DIDs and the 201-299 series is reserved to Integrated Logistics Support (ILS) DIDs. The abbreviation codes used for the prefix are:

"PM" for Project Management
"SE" for Systems Engineering
"ILS" for Integrated Logistics Support

BLOCK 3 - DESCRIPTION
Provides a general description of the data content requirements.

BLOCK 4 – RELATED DOCUMENT(S)
Provides a listing of the related documents and specifications associated with and required to produce this DID.

BLOCK 5 - CONTRACT REFERENCE
The specific paragraph numbers from the Contract Statement of Work and CDRL to assist in identifying the work effort associated with the data item.

BLOCK 6 - PREPARATION INSTRUCTIONS
Provides the preparation instructions for the content and format requirements for the DID.

A4.4 **DID – Meeting Agenda**

DATA ITEM DESCRIPTION	
1. TITLE **Meeting Agenda**	2. IDENTIFICATION NUMBER **DID HPTK -PM-001**
3. DESCRIPTION The Meeting Agenda contains the venue information and identifies the discussion items to be covered at meetings.	
4. RELATED DOCUMENTS	5. CONTRACT REFERENCE **SOW**: **PARA 3.1.4.1.1** **CDRL**: **APP A3.4**

6. PREPARATION INSTRUCTIONS

6.1. **CONTENT**

6.1.1. The Meeting Agenda must set forth the venue, identify all requirements and list the discussion items to be covered at the meeting.

6.1.2. Venue. The Meeting Agenda must address the venue as follows:

6.1.2.1. Meeting Identification Number;

6.1.2.2. Purpose;

6.1.2.3. Date, time and location; and

6.1.2.4. Attendees.

6.1.3. Discussion items. The Meeting Agenda must address the discussion items through the following sections:

6.1.3.1. Opening Remarks;

6.1.3.2. Agenda Review;

6.1.3.3. Review of Previous Minutes;

6.1.3.4. Opened Discussion Items;

6.1.3.5. New Discussion Items;

6.1.3.6. Review of Action Items;

6.1.3.7. Next Venue; and

6.1.3.8. Closing Remarks.

6.2. **HARD COPY FORMAT**

6.2.1. The Meeting Agenda must be printed on paper with these characteristics:

6.2.1.1. Weight of no less than 90 gsm;

6.2.1.2. Brightness of no less than 96 ISO brightness;

6.3. **SOFT COPY FORMAT**

6.3.1. The Meeting Agenda must be submitted as a MS Word file type.

6.3.2. The Meeting Agenda MS Word document must be submitted via email (submission size not to exceed 7MB) as follows:

6.3.2.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract.

6.3.2.2. Subject Field: HPTK -PM-001 – Meeting Agenda – [Rev #] – [Date of Issue]

A4.5 **DID – Meeting Agenda**

DATA ITEM DESCRIPTION	
1. TITLE **Meeting Agenda**	2. IDENTIFICATION NUMBER **DID UHPTK PM-002**
3. DESCRIPTION The Meeting Agenda contains the venue information and identifies the discussion items to be covered at meetings.	
4. RELATED DOCUMENTS	5. CONTRACT REFERENCE **SOW**: **PARA 3.1.4.1.1** **CDRL**: **APP A3.4**

7. PREPARATION INSTRUCTIONS

7.1. **CONTENT**

7.1.1. The Meeting Agenda must set forth the venue, identify all requirements and list the discussion items to be covered at the meeting.

7.1.2. Venue. The Meeting Agenda must address the venue as follows:

7.1.2.1. Meeting Identification Number;

7.1.2.2. Purpose;

7.1.2.3. Date, time and location; and

7.1.2.4. Attendees.

7.1.3. Discussion items. The Meeting Agenda must address the discussion items through the following sections:

7.1.3.1. Opening Remarks;

7.1.3.2. Agenda Review;

7.1.3.3. Review of Previous Minutes;

7.1.3.4. Opened Discussion Items;

7.1.3.5. New Discussion Items;

7.1.3.6. Review of Action Items;

7.1.3.7. Next Venue; and

7.1.3.8. Closing Remarks.

7.2. **HARD COPY FORMAT**

7.2.1. The Meeting Agenda must be printed on paper with these characteristics:

7.2.1.1. Weight of no less than 90 gsm;

7.2.1.2. Brightness of no less than 96 ISO brightness;

7.3. **SOFT COPY FORMAT**

7.3.1. The Meeting Agenda must be submitted as a MS Word file type.

7.3.2. The Meeting Agenda MS Word document must be submitted via email (submission size not to exceed 7MB) as follows:

7.3.2.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract.

7.3.2.2. Subject Field: UHPTK -PM-002 – Meeting Agenda – [Rev #] – [Date of Issue]

A4.6 **DID – Top Level Assembly Drawing**

DATA ITEM DESCRIPTION	
1. TITLE **Top Level Assembly Drawing (TLAD)**	2. IDENTIFICATION NUMBER **DID HPTK-ILS-201**
3. DESCRIPTION The TLAD describes the assembled relationship of all the parts of the system.	
4. RELATED DOCUMENTS **D-01-400-001/SG-000** *Standard - Engineering Drawing Practices* **D-01-400-002/SF-000** *Specification - Levels of Engineering Drawings*	5. CONTRACT REFERENCE **SOW**: **PARA 3.1.2.2 .1** **CDRL**: **APP A3.6**

6. PREPARATION INSTRUCTIONS

6.1. **CONTENT**

6.1.1. The TLAD must contain all information necessary to identify all the components of the HYDRAULIC POWER TOOL KIT.

6.2. **GENERAL FORMAT**

6.2.1. The TLAD must be prepared IAW D-01-400-001/SG-000, Engineering Drawing Practices, Section 7 , para 4, and D-01-400-002/SF-000: Levels of Engineering Drawings, Section 3, para 3.3.2 (Level 2).

6.3. **HARD COPY FORMAT**

6.3.1. The TLAD must be printed on paper with these characteristics:

6.3.1.1. Standard US Ledger size (432 mm x 279 mm)

6.3.1.2. Weight of no less than 90 gsm;

6.3.1.3. Brightness of no less than 96 ISO brightness;

6.4. **SOFT COPY FORMAT**

6.4.1. The TLAD must be submitted as a PDF file type, and match the printed format and layout.

6.4.1.1. Viewing the PDF version: pages, regardless of size, containing text and illustrations in landscape, must be rotated for electronic viewing and reading in landscape.

6.4.2. **Soft Copy format submission size below 7MB** – The TLAD PDF may be submitted via email as follows:

6.4.2.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract.

6.4.2.2. Subject Field: HPTK-ILS-201 – TLAD – [Rev #] – [Date of Issue]

6.4.3. **Soft Copy format submission size at or above 7MB** - The TLAD PDF must be submitted on CD or DVD media and be labelled as follows:

6.4.3.1. HYDRAULIC POWER TOOL KIT

6.4.3.2. TLAD;

6.4.3.3. HPTK-ILS-201;

6.4.3.4. The Revision number, and

6.4.3.5. The date of issue.

A4.7 **DID – Top Level Assembly Drawing**

DATA ITEM DESCRIPTION	
1. TITLE **Top Level Assembly Drawing (TLAD)**	2. IDENTIFICATION NUMBER **DID UHPTK -ILS-202**
3. DESCRIPTION The TLAD describes the assembled relationship of all the parts of the system.	
4. RELATED DOCUMENTS **D-01-400-001/SG-000** *Standard - Engineering Drawing Practices* **D-01-400-002/SF-000** *Specification - Levels of Engineering Drawings*	5. CONTRACT REFERENCE **SOW**: **PARA 3.1.2.2 .2** **CDRL**: **APP A3.6**

7. PREPARATION INSTRUCTIONS

7.1. **CONTENT**

7.1.1. The TLAD must contain all information necessary to identify all the components of the UHPTK.

7.2. **GENERAL FORMAT**

7.2.1. The TLAD must be prepared IAW D-01-400-001/SG-000, Engineering Drawing Practices, Section 7 para 4, and D-01-400-002/SF-000: Levels of Engineering Drawings, Section 3, para 3.3.2 (Level 2).

7.3. **HARD COPY FORMAT**

7.3.1. The TLAD must be printed on paper with these characteristics:

7.3.1.1. Standard US Ledger size (432 mm x 279 mm)

7.3.1.2. Weight of no less than 90 gsm;

7.3.1.3. Brightness of no less than 96 ISO brightness;

7.4. **SOFT COPY FORMAT**

7.4.1. The TLAD must be submitted as a PDF file type, and match the printed format and layout.

7.4.1.1. Viewing the PDF version: pages, regardless of size, containing text and illustrations in landscape, must be rotated for electronic viewing and reading in landscape.

7.4.2. **Soft Copy format submission size below 7MB** – The TLAD PDF may be submitted via email as follows:

7.4.2.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract.

7.4.2.2. Subject Field: UHPTK -ILS-202 – TLAD – [Rev #] – [Date of Issue]

7.4.3. **Soft Copy format submission size at or above 7MB** - The TLAD PDF must be submitted on CD or DVD media and be labelled as follows:

7.4.3.1. UNDERWATER HYDRAULIC POWER TOOL KIT

7.4.3.2. TLAD;

7.4.3.3. UHPTK -ILS-202;

7.4.3.4. The Revision number, and

7.4.3.5. The date of issue.

A4.8 **DID – Identification Labels for Storage & Shipment and Packaging Codes**

DATA ITEM DESCRIPTION	
1. TITLE **Identification Labels for Storage & Shipment and Packaging Codes**	2. IDENTIFICATION NUMBER **DID HPTK-ILS-203**
3. DESCRIPTION The Identification Labels for Storage & Shipment and Packaging Codes (CF271 forms) ensures that the labelling used to identify packages for items procured by DND and shipped to and stored at a Canadian facility comply with CAF specifications. As well, this will allow DND to obtain a complete record of packaging codes for catalogued items of the equipment.	
4. RELATED DOCUMENTS **D-LM-008-011/SF-001** *Preparation and Use of Packaging Requirements Codes* **D-LM-008-002/SF-001** *Specification for Marking for Storage and Shipment* **D-01-400-002/SF-000** Specification - *Levels of Engineering Drawings* **CF271** *Form (MS Excel version provided by DND after contract award)*	5. CONTRACT REFERENCE **SOW**: **PARA 4.4.3 .1** **CDRL**: **APP A3.8**

6. PREPARATION INSTRUCTIONS

6.1. **CONTENT AND GENERAL FORMAT**

6.1.1. The Identification Labels for Storage & Shipment design, populated with the appropriate data, must be provided as Level 1 drawings (see D-01-400-002/SF-000) and include dimensions to show the measurements as defined by D-LM-008-002/SF-001 (example: text size, bar code dimensions).

6.1.2. A separate Packaging Code (CF271 Form) must be provided electronically for each item that:

6.1.2.1. Requires special packaging, packing, or preservation considerations to meet the required protection level (see 4.4.1 of the SOW), as per D-LM-008-011/SF-001 (see Table 1 below); and,

6.1.2.2. Has a NATO Stock Number (NSN).

6.1.3. The CF271 forms' file name must correspond to the item listed within, either by its part number or NSN (example: CF271 9422-01-552-8836.xls).

6.2. **HARD COPY FORMAT**

6.2.1. The Identification Labels for Storage & Shipment designs must be printed on paper with these characteristics:

6.2.1.1. Standard US Ledger size (432 mm x 279 mm)

6.2.1.2. Weight of no less than 90 g/m^2;

6.2.1.3. Brightness of no less than 96 ISO brightness;

6.3. **SOFT COPY FORMAT**

6.3.1. The Identification Labels for Storage & Shipment designs must be provided as PDF files.

6.3.2. The Identification Labels for Storage & Shipment designs PDFs containing text and illustrations in landscape, must be rotated for electronic viewing and reading in landscape.

6.3.3. The Packaging Codes (CF271 forms) must be provided as MS Excel Spreadsheet files.

6.3.4. **Soft Copy format submission size below 7MB** – The Identification Labels for Storage & Shipment and Packaging Codes may be submitted via email as follows:

6.3.4.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract.

6.3.4.2. Subject Field: HPTK-ILS-203 – Identification Labels for Storage & Shipment and Packaging Codes – [Rev #] – [Date of Issue]

6.3.5. **Soft Copy format submission size at or above 7MB** – The Identification Labels for Storage & Shipment and Packaging Codes files must be submitted on CD or DVD media and be labelled as follows:

6.3.5.1. HYDRAULIC POWER TOOL KIT

6.3.5.2. Identification Labels for Storage & Shipment and Packaging Codes

6.3.5.3. HPTK-ILS-203;

6.3.5.4. The Revision number, and

6.3.5.5. The date of issue.

A4.9 **DID – Identification Labels for Storage & Shipment and Packaging Codes**

DATA ITEM DESCRIPTION	
1. TITLE **Identification Labels for Storage & Shipment and Packaging Codes**	2. IDENTIFICATION NUMBER **DID UHPTK -ILS-204**
3. DESCRIPTION The Identification Labels for Storage & Shipment and Packaging Codes (CF271 forms) ensures that the labelling used to identify packages for items procured by DND and shipped to and stored at a Canadian facility comply with CAF specifications. As well, this will allow DND to obtain a complete record of packaging codes for catalogued items of the equipment.	
4. RELATED DOCUMENTS **D-LM-008-011/SF-001** *Preparation and Use of Packaging Requirements Codes* **D-LM-008-002/SF-001** *Specification for Marking for Storage and Shipment* **D-01-400-002/SF-000** Specification - *Levels of Engineering Drawings* **CF271** *Form (MS Excel version provided by DND after contract award)*	5. CONTRACT REFERENCE **SOW**: **PARA 4.4.3 .2** **CDRL**: **APP A3.8**

7. PREPARATION INSTRUCTIONS

7.1. **CONTENT AND GENERAL FORMAT**

7.1.1. The Identification Labels for Storage & Shipment design, populated with the appropriate data, must be provided as Level 1 drawings (see D-01-400-002/SF-000) and include dimensions to show the measurements as defined by D-LM-008-002/SF-001 (example: text size, bar code dimensions).

7.1.2. A separate Packaging Code (CF271 Form) must be provided electronically for each item that:

7.1.2.1. Requires special packaging, packing, or preservation considerations to meet the required protection level (see 4.4.1 of the SOW), as per D-LM-008-011/SF-001 (see Table 1 below); and,

7.1.2.2. Has a NATO Stock Number (NSN).

7.1.3. The CF271 forms' file name must correspond to the item listed within, either by its part number or NSN (example: CF271 9422-01-552-8836.xls).

7.2. **HARD COPY FORMAT**

7.2.1. The Identification Labels for Storage & Shipment designs must be printed on paper with these characteristics:

7.2.1.1. Standard US Ledger size (432 mm x 279 mm)

7.2.1.2. Weight of no less than 90 g/m^2;

7.2.1.3. Brightness of no less than 96 ISO brightness;

7.3. **SOFT COPY FORMAT**

7.3.1. The Identification Labels for Storage & Shipment designs must be provided as PDF files.

7.3.2. The Identification Labels for Storage & Shipment designs PDFs containing text and illustrations in landscape, must be rotated for electronic viewing and reading in landscape.

7.3.3. The Packaging Codes (CF271 forms) must be provided as MS Excel Spreadsheet files.

7.3.4. **Soft Copy format submission size below 7MB** – The Identification Labels for Storage & Shipment and Packaging Codes may be submitted via email as follows:

7.3.4.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract.

7.3.4.2. Subject Field: UHPTK -ILS-204 – Identification Labels for Storage & Shipment and Packaging Codes – [Rev #] – [Date of Issue]

7.3.5. **Soft Copy format submission size at or above 7MB** – The Identification Labels for Storage & Shipment and Packaging Codes files must be submitted on CD or DVD media and be labelled as follows:

7.3.5.1. UNDERWATER HYDRAULIC POWER TOOL KIT

7.3.5.2. Identification Labels for Storage & Shipment and Packaging Codes

7.3.5.3. UHPTK -ILS-204;

7.3.5.4. The Revision number, and

7.3.5.5. The date of issue.

A4.10 **DID – Provisioning Parts Breakdown**

DATA ITEM DESCRIPTION	
1. TITLE **Provisioning Parts Breakdown**	2. IDENTIFICATION NUMBER **DID HPTK-ILS-205**
3. DESCRIPTION The Provisioning Parts Breakdown (PPB) is a top-down breakdown of the equipment in the configuration in which it is being procured. This breakdown is accomplished by listing all parts included in the end item in a lateral and descending family tree/generation breakdown. In this breakdown, all assemblies, subassemblies and parts are listed in relation to the next higher assembly. This relationship is shown by means of an indention code as illustrated in the top-down breakdown sequence. For example, an assembly with indention code B must be followed by a detailed breakdown of all the subsequent indention codes pertaining to that assembly before the next indention code B assembly (if any) is, in turn, broken down.	
4. RELATED DOCUMENTS **D-01-100-214/SF-000** *Specification for Preparation of Provisioning Documentation for Canadian Forces Equipment*	5. CONTRACT REFERENCE **SOW**: **PARA 4.5.3.1.1** **CDRL**: **APP A3.10**

6 PREPARATION INSTRUCTIONS

6.1 **CONTENT**

6.1.1 The PPB must contain data as per Table 1 below that supersedes Figures 1 and 5 in D-01-100-214/SF-000.

6.1.2 The PPB attaching parts and fasteners, given a “Y” indention code, must immediately follow the part which they fasten.

6.1.3 The PPB Data Field definitions can be found at section 3.9.4 of the D-01-100-214/SF-000 specification. The following override applies: *Expanded Description (SPTD)* must contain the line item’s applicable SPTD filename.

6.1.4 For clarity:

6.1.4.1 *Original Equipment Manufacturer’s Part Number* refers only to the Contractor which DND has contracted to supply the equipment; data from sub-contractors for items that they did not manufacture or do not control are not permitted. This field may be left blank if no data is available, or if it is the same as the MRN.

6.1.4.2 *Quantity per Assembly* (QPA) refers to the number of times the item is used in the next higher assembly. For example, a C-level item’s QPA will show the number of times it is used in its related B-level assembly, without being multiplied by the number of B-level assemblies.

6.1.4.3 *Quantity per Equipment* (QPE) refers to the total number of times the item is used in the whole prime equipment (A-level). If that quantity exceeds 99999, the figure will show 99999 in the field, with the true quantity (if known) shown in the *Expanded Description* field.

6.1.4.4 *NATO Commercial and Government Entity* (NCAGE) Codes can be searched and requested through the NATO portal: https://eportal.nspa.nato.int/AC135Public/scage/CageList.aspx.

TABLE 1

Data Fields Required	Field Length
Item Number	6
Indention Code	1
Item Name	32
MRN	30
NCAGE	5
OEM’s Part Number	30

NATO Stock Number	16
Quantity Per Assembly (QPA)	4
Quantity Per Equipment (QPE)	5
Standard Unit Price	9
Unit Of Issue	2
Reparability Indicator (REP)	1
Government Supplied Material (GSM)	1
Procurement Lead Time (PLT)	3
Shelf Life	2
Usage Rate	5
Recommended Buy Quantity	8
SMR Code	5
Expanded Description	34
Expanded Description (SPTD)	74

6.1.5 The Source Maintenance and Recoverability (SMR) Codes are used to communicate maintenance and supply instructions to the various logistic support levels and user organizations for the logistic support of systems, equipment, and end items. The PPB SMR Codes must be chosen from the following list:

SMR Field Position	Code	Application/Explanation
First and Second Position Source Codes	PA	Item procured and stocked for anticipated or known usage. Items are normally considered for replenishment
	PC	Item procured and stocked, but is deteriorative in nature.
	PF	Support equipment which will not be stocked, but which will be centrally procured on demand.
	XA	Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly
	XC	Installation drawing, diagram, instruction sheet, or field Service drawing, that is identified by the manufacturers' part number.
Third Position Maintenance Codes	C	Support item is removed, replaced, used by the operator/crew.
	O	Support item is removed, replaced, or used at the Technician Maintenance level.
	K	Repairable item. Item is removed, replaced, or used at contractor facility.
Fourth Position Repair Codes	C	The lowest maintenance activity capable of complete repair of the support item is the operator/crew.
	O	The lowest maintenance activity capable of complete repair of the support item is the Technician Maintenance level.
	K	Repairable support item. Complete repair capability exists at a designated contractor facility.
	Z	Non-repairable.
Fifth Position Recoverability Codes	C	Repairable item. When uneconomically repairable, condemn and disposed by the operator/crew.
	Z	Non-repairable item. When item becomes unserviceable, condemn and disposed of by authorized activity.
	O	Repairable item. When uneconomically repairable, condemn and dispose at organizational activity.
	K	Repairable item. Condemnation and disposal to be performed at contractor facility.

6.2 **GENERAL FORMAT**

6.2.1 The PPB must be prepared as an MS Excel spreadsheet, formatted IAW D-01-100-214/SF-000, except where superseded by Table 1 above.

6.3 **HARD COPY FORMAT**

6.3.1 The PPB must be printed on paper with these characteristics:

6.3.1.1 Standard US Ledger size (432 mm x 279 mm)

6.3.1.2 Weight of no less than 90 g/m^2;

6.3.1.3 Brightness of no less than 96 ISO brightness;

6.4 **SOFT COPY FORMAT**

6.4.1 The PPB must be provided as an MS Excel Spreadsheet file.

6.4.2 **Soft Copy format submission size below 7MB** – The PPB may be submitted via email as follows:

6.4.2.1 To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract.

6.4.2.2 Subject Field: HPTK-ILS-205 – PPB – [Rev #] – [Date of Issue]

6.4.3 **Soft Copy format submission size at or above 7MB** - The PPB file must be submitted on CD or DVD media and be labelled as follows:

6.4.3.1 HYDRAULIC POWER TOOL KIT

6.4.3.2 Provisioning Parts Breakdown;

6.4.3.3 HPTK-ILS-205;

6.4.3.4 The Revision number, and

6.4.3.5 The date of issue.

A4.11 **DID – Provisioning Parts Breakdown**

DATA ITEM DESCRIPTION	
1. TITLE **Provisioning Parts Breakdown**	2. IDENTIFICATION NUMBER **DID UHPTK -ILS-206**
3. DESCRIPTION The Provisioning Parts Breakdown (PPB) is a top-down breakdown of the equipment in the configuration in which it is being procured. This breakdown is accomplished by listing all parts included in the end item in a lateral and descending family tree/generation breakdown. In this breakdown, all assemblies, subassemblies and parts are listed in relation to the next higher assembly. This relationship is shown by means of an indention code as illustrated in the top-down breakdown sequence. For example, an assembly with indention code B must be followed by a detailed breakdown of all the subsequent indention codes pertaining to that assembly before the next indention code B assembly (if any) is, in turn, broken down.	
4. RELATED DOCUMENTS **D-01-100-214/SF-000** *Specification for Preparation of Provisioning Documentation for Canadian Forces Equipment*	5. CONTRACT REFERENCE **SOW**: **PARA 4.5.3.1.1** **CDRL**: **APP A3.10**

7 PREPARATION INSTRUCTIONS

7.1 **CONTENT**

7.1.1 The PPB must contain data as per Table 1 below that supersedes Figures 1 and 5 in D-01-100-214/SF-000.

7.1.2 The PPB attaching parts and fasteners, given a “Y” indention code, must immediately follow the part which they fasten.

7.1.3 The PPB Data Field definitions can be found at section 3.9.4 of the D-01-100-214/SF-000 specification. The following override applies: *Expanded Description (SPTD)* must contain the line item’s applicable SPTD filename.

7.1.4 For clarity:

7.1.4.1 *Original Equipment Manufacturer’s Part Number* refers only to the Contractor which DND has contracted to supply the equipment; data from sub-contractors for items that they did not manufacture or do not control are not permitted. This field may be left blank if no data is available, or if it is the same as the MRN.

7.1.4.2 *Quantity per Assembly* (QPA) refers to the number of times the item is used in the next higher assembly. For example, a C-level item’s QPA will show the number of times it is used in its related B-level assembly, without being multiplied by the number of B-level assemblies.

7.1.4.3 *Quantity per Equipment* (QPE) refers to the total number of times the item is used in the whole prime equipment (A-level). If that quantity exceeds 99999, the figure will show 99999 in the field, with the true quantity (if known) shown in the *Expanded Description* field.

7.1.4.4 *NATO Commercial and Government Entity* (NCAGE) Codes can be searched and requested through the NATO portal: https://eportal.nspa.nato.int/AC135Public/scage/CageList.aspx.

TABLE 2

Data Fields Required	Field Length
Item Number	6
Indention Code	1
Item Name	32
MRN	30
NCAGE	5
OEM’s Part Number	30

NATO Stock Number	16
Quantity Per Assembly (QPA)	4
Quantity Per Equipment (QPE)	5
Standard Unit Price	9
Unit Of Issue	2
Reparability Indicator (REP)	1
Government Supplied Material (GSM)	1
Procurement Lead Time (PLT)	3
Shelf Life	2
Usage Rate	5
Recommended Buy Quantity	8
SMR Code	5
Expanded Description	34
Expanded Description (SPTD)	74

7.1.5 The Source Maintenance and Recoverability (SMR) Codes are used to communicate maintenance and supply instructions to the various logistic support levels and user organizations for the logistic support of systems, equipment, and end items. The PPB SMR Codes must be chosen from the following list:

SMR Field Position	Code	Application/Explanation
First and Second Position Source Codes	PA	Item procured and stocked for anticipated or known usage. Items are normally considered for replenishment
	PC	Item procured and stocked, but is deteriorative in nature.
	PF	Support equipment which will not be stocked, but which will be centrally procured on demand.
	XA	Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly
	XC	Installation drawing, diagram, instruction sheet, or field Service drawing, that is identified by the manufacturers' part number.
Third Position Maintenance Codes	C	Support item is removed, replaced, used by the operator/crew.
	O	Support item is removed, replaced, or used at the Technician Maintenance level.
	K	Repairable item. Item is removed, replaced, or used at contractor facility.
Fourth Position Repair Codes	C	The lowest maintenance activity capable of complete repair of the support item is the operator/crew.
	O	The lowest maintenance activity capable of complete repair of the support item is the Technician Maintenance level.
	K	Repairable support item. Complete repair capability exists at a designated contractor facility.
	Z	Non-repairable.
Fifth Position Recoverability Codes	C	Repairable item. When uneconomically repairable, condemn and disposed by the operator/crew.
	Z	Non-repairable item. When item becomes unserviceable, condemn and disposed of by authorized activity.
	O	Repairable item. When uneconomically repairable, condemn and dispose at organizational activity.
	K	Repairable item. Condemnation and disposal to be performed at contractor facility.

7.2 **GENERAL FORMAT**

7.2.1 The PPB must be prepared as an MS Excel spreadsheet, formatted IAW D-01-100-214/SF-000, except where superseded by Table 1 above.

7.3 **HARD COPY FORMAT**

7.3.1 The PPB must be printed on paper with these characteristics:

7.3.1.1 Standard US Ledger size (432 mm x 279 mm)

7.3.1.2 Weight of no less than 90 g/m^2;

7.3.1.3 Brightness of no less than 96 ISO brightness;

7.4 **SOFT COPY FORMAT**

7.4.1 The PPB must be provided as an MS Excel Spreadsheet file.

7.4.2 **Soft Copy format submission size below 7MB** – The PPB may be submitted via email as follows:

7.4.2.1 To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract.

7.4.2.2 Subject Field: UHPTK -ILS-206 – PPB – [Rev #] – [Date of Issue]

7.4.3 **Soft Copy format submission size at or above 7MB** - The PPB file must be submitted on CD or DVD media and be labelled as follows:

7.4.3.1 UNDERWATER HYDRAULIC POWER TOOL KIT

7.4.3.2 Provisioning Parts Breakdown;

7.4.3.3 UHPTK -ILS-206;

7.4.3.4 The Revision number, and

7.4.3.5 The date of issue.

A4.12 **DID – Supplementary Provisioning Technical Documentation**

DATA ITEM DESCRIPTION	
1. TITLE **Supplementary Provisioning Technical Documentation**	2. IDENTIFICATION NUMBER **DID HPTK-ILS-207**
3. DESCRIPTION The Supplementary Provisioning Technical Documentation (SPTD) fully identifies and describes part(s) that may be catalogued.	
4. RELATED DOCUMENTS **D-01-100-214/SF-000** *Specification for Preparation of Provisioning Documentation for Canadian Forces Equipment* **D-01-400-001/SG-000** *Standard - Engineering Drawing Practices*	5. CONTRACT REFERENCE **SOW**: **PARA 4.5.3.2.1** **CDRL**: **APP A3.12**

6. **PREPARATION INSTRUCTIONS**

6.1. **CONTENT**

6.1.1. The Supplementary Provisioning Technical Documentation (SPTD) must be provided for each item appearing on the Provisioning Documentation as follows:

6.1.1.1. The SPTD must include the technical data required for DND to classify and fully describe the item within the NATO codification system, allowing for item identification and cataloguing purposes.

6.1.1.2. Key elements of good SPTD:

6.1.1.2.1. Displays the true manufacturer company logo & address (or NCAGE), and MRN (see D-01-100-214/SF-000 for definitions.).

6.1.1.2.2. Lists characteristic data about the item:

6.1.1.2.2.1. Configuration;

6.1.1.2.2.2. Physical characteristics, such as dimensions, tolerances, material, mandatory processes, surface finish, and protective coatings;

6.1.1.2.2.3. Performance data;

6.1.1.2.2.4. Special features which contribute to the uniqueness of the item, especially for common items modified to a particular standard of performance.

6.1.1.2.3. Clearly shows the item in question.

6.1.1.2.4. Shows where the item fits in the next higher assembly (where practical).

6.2. **GENERAL FORMAT**

6.2.1. The SPTD must be prepared as black and white line drawing(s) or with good quality photograph(s) within a Technical Datasheet.

6.2.1.1. If prepared as a drawing, the SPTD must follow the drawing format of D-01-400-001/SG-000 section 7.4, with attached parts lists (for assemblies), so that DND can ensure that the Provisioning Documentation reflects the current and complete configuration of the equipment being produced.

6.3. **HARD COPY FORMAT**

6.3.1. The SPTD must be printed on Ledger (11x17) paper with these characteristics:

6.3.1.1. Weight of no less than 90 g/m^2;

6.3.1.2. Brightness of no less than 96 ISO brightness;

6.4. **SOFT COPY FORMAT**

6.4.1. The SPTD must be submitted in PDF file type, with filenames in the following format: (MRN)_(NCAGE)_(item name).pdf.

6.4.2. **Soft Copy format submission size below 7MB** – The SPTD PDFs may be submitted via email as follows:

6.4.2.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract.

6.4.2.2. Subject Field: HPTK-ILS-207 – SPTD – [Rev #] – [Date of Issue]

6.4.3. **Soft Copy format submission size at or above 7MB** – The SPTD PDFs must be submitted on CD or DVD media and be labelled as follows:

6.4.3.1. HYDRAULIC POWER TOOL KIT

6.4.3.2. SPTD;

6.4.3.3. HPTK-ILS-207;

6.4.3.4. The Revision number, and

6.4.3.5. The date of issue.

A4.13 **DID – Supplementary Provisioning Technical Documentation**

DATA ITEM DESCRIPTION	
1. TITLE **Supplementary Provisioning Technical Documentation**	2. IDENTIFICATION NUMBER **DID HPS-ILS-208**
3. DESCRIPTION The Supplementary Provisioning Technical Documentation (SPTD) fully identifies and describes part(s) that may be catalogued.	
4. RELATED DOCUMENTS **D-01-100-214/SF-000** *Specification for Preparation of Provisioning Documentation for Canadian Forces Equipment* **D-01-400-001/SG-000** *Standard - Engineering Drawing Practices*	5. CONTRACT REFERENCE **SOW**: **PARA 4.5.3.2.1** **CDRL**: **APP A3.12**

7. **PREPARATION INSTRUCTIONS**

7.1. **CONTENT**

7.1.1. The Supplementary Provisioning Technical Documentation (SPTD) must be provided for each item appearing on the Provisioning Documentation as follows:

7.1.1.1. The SPTD must include the technical data required for DND to classify and fully describe the item within the NATO codification system, allowing for item identification and cataloguing purposes.

7.1.1.2. Key elements of good SPTD:

7.1.1.2.1. Displays the true manufacturer company logo & address (or NCAGE), and MRN (see D-01-100-214/SF-000 for definitions.).

7.1.1.2.2. Lists characteristic data about the item:

7.1.1.2.2.1. Configuration;

7.1.1.2.2.2. Physical characteristics, such as dimensions, tolerances, material, mandatory processes, surface finish, and protective coatings;

7.1.1.2.2.3. Performance data;

7.1.1.2.2.4. Special features which contribute to the uniqueness of the item, especially for common items modified to a particular standard of performance.

7.1.1.2.3. Clearly shows the item in question.

7.1.1.2.4. Shows where the item fits in the next higher assembly (where practical).

7.2. **GENERAL FORMAT**

7.2.1. The SPTD must be prepared as black and white line drawing(s) or with good quality photograph(s) within a Technical Datasheet.

7.2.1.1. If prepared as a drawing, the SPTD must follow the drawing format of D-01-400-001/SG-000 section 7.4, with attached parts lists (for assemblies), so that DND can ensure that the Provisioning Documentation reflects the current and complete configuration of the equipment being produced.

7.3. **HARD COPY FORMAT**

7.3.1. The SPTD must be printed on Ledger (11x17) paper with these characteristics:

7.3.1.1. Weight of no less than 90 g/m^2;

7.3.1.2. Brightness of no less than 96 ISO brightness;

7.4. **SOFT COPY FORMAT**

7.4.1. The SPTD must be submitted in PDF file type, with filenames in the following format: (MRN)_(NCAGE)_(item name).pdf.

7.4.2. **Soft Copy format submission size below 7MB** – The SPTD PDFs may be submitted via email as follows:

7.4.2.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract.

7.4.2.2. Subject Field: UHPTK -ILS-208 – SPTD – [Rev #] – [Date of Issue]

7.4.3. **Soft Copy format submission size at or above 7MB** – The SPTD PDFs must be submitted on CD or DVD media and be labelled as follows:

7.4.3.1. UNDERWATER HYDRAULIC POWER TOOL KIT

7.4.3.2. SPTD;

7.4.3.3. UHPTK -ILS-208;

7.4.3.4. The Revision number, and

7.4.3.5. The date of issue.

A4.14 **DID – Operator Quick Reference Card**

DATA ITEM DESCRIPTION	
1. TITLE **Operator Quick Reference Card**	2. IDENTIFICATION NUMBER **DID HPTK-ILS-209**
3. DESCRIPTION Operator Quick Reference Card (OQRC) will allow the trained user to quickly unpack, assemble, and safely use the equipment.	
4. RELATED DOCUMENTS	5. CONTRACT REFERENCE **SOW**: **PARA 4.2.1.1.1** **CDRL**: **APP A3.14**

6. PREPARATION INSTRUCTIONS

6.1. **CONTENT**

6.1.1. The OQRC must contain the necessary instructions to allow a trained user to quickly, safely and effectively operate the equipment.

6.1.2. The OQRC must assume that the equipment's initial state is as off-loaded from its last transport vehicle (see Technical Specification(s)).

6.1.3. The OQRC instructions must be based on pictograms illustrating the sequence of steps required while using only minimal text to assist in the understanding of the document. Desired look and feel would be similar to commercial airline safety pamphlets describing the use of oxygen masks, and emergency exits.

6.1.4. The OQRC must not introduce new information and procedures not also described in the Operator Manual, as the Operator Manual is the master document on how to use the equipment.

6.1.5. The OQRC cautionary advisory's heading must be determined based on the criteria set out in ANNEX A SOW PARA 4.2.2.1.

6.1.6. The OQRC cautionary advisory must read as follows: "**This Operator Quick Reference Card is intended solely for experienced users who have been trained on this equipment, and have read and understood its Operator Manual** (CFTO# to be supplied by DND). **When in doubt, read the Operator Manual before operating this equipment.**"

6.1.7. The OQRC cautionary advisory must also have, immediately following this text, a brief description of the consequences of misuse of the equipment, linked to the same criteria listed in 6.1.5 above.

6.2. **HARD COPY FORMAT**

6.2.1. The accepted OQRC hard copies must:

6.2.1.1. Be printed on paper with pages of 320-370 g/m^2 polyester film (such as Pico Film), matt surface and white colour, and bound with white or black spiral coil (PLASTIKOIL®);

6.2.1.2. Contain no more than four (4) sheets;

6.2.1.3. Be produced and printed exclusively in black and white.

6.3. **SOFT COPY FORMAT**

6.3.1. The OQRC must be provided as a PDF file with searchable text that matches the printed publication's format and layout. Links, bookmarks and thumbnails are to be included in the PDF file. All references made to a specific paragraph, figure, appendix must be appropriately linked.

6.3.2. Viewing the OQRC PDF: pages, regardless of size, containing text and illustrations in landscape, must be rotated for electronic viewing and reading in landscape.

6.3.3. **Soft Copy format submission size below 7MB** – The OQRC PDF and its native file may be submitted via email as follows:

6.3.3.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract.

6.3.3.2. Subject Field: HPTK-ILS-208 – OQRC – [Rev #] – [Date of Issue]

6.3.4. **Soft Copy format submission size at or above 7MB** - The OQRC PDF and its native file must be submitted on CD or DVD media and be labelled as follows:

6.3.4.1. HYDRAULIC POWER TOOL KIT

6.3.4.2. OQRC;

6.3.4.3. HPTK-ILS-209;

6.3.4.4. The Revision number, and

6.3.4.5. The date of issue.

A4.15 **DID – Operator Quick Reference Card**

DATA ITEM DESCRIPTION	
1. TITLE **Operator Quick Reference Card**	2. IDENTIFICATION NUMBER **DID UHPTK -ILS-210**
3. DESCRIPTION Operator Quick Reference Card (OQRC) will allow the trained user to quickly unpack, assemble, and safely use the equipment.	
4. RELATED DOCUMENTS	5. CONTRACT REFERENCE **SOW**: **PARA 4.2.1.1.1** **CDRL**: **APP A3.15**

7. PREPARATION INSTRUCTIONS

7.1. **CONTENT**

7.1.1. The OQRC must contain the necessary instructions to allow a trained user to quickly, safely and effectively operate the equipment.

7.1.2. The OQRC must assume that the equipment's initial state is as off-loaded from its last transport vehicle (see Technical Specification(s)).

7.1.3. The OQRC instructions must be based on pictograms illustrating the sequence of steps required while using only minimal text to assist in the understanding of the document. Desired look and feel would be similar to commercial airline safety pamphlets describing the use of oxygen masks, and emergency exits.

7.1.4. The OQRC must not introduce new information and procedures not also described in the Operator Manual, as the Operator Manual is the master document on how to use the equipment.

7.1.5. The OQRC cautionary advisory's heading must be determined based on the criteria set out in ANNEX A SOW PARA 4.2.2.1.

7.1.6. The OQRC cautionary advisory must read as follows: "**This Operator Quick Reference Card is intended solely for experienced users who have been trained on this equipment, and have read and understood its Operator Manual** (CFTO# to be supplied by DND). **When in doubt, read the Operator Manual before operating this equipment.**"

7.1.7. The OQRC cautionary advisory must also have, immediately following this text, a brief description of the consequences of misuse of the equipment, linked to the same criteria listed in 6.1.5 above.

7.2. **HARD COPY FORMAT**

7.2.1. The accepted OQRC hard copies must:

7.2.1.1. Be printed on paper with pages of 320-370 g/m^2 polyester film (such as Pico Film), matt surface and white colour, and bound with white or black spiral coil (PLASTIKOIL®);

7.2.1.2. Contain no more than four (4) sheets;

7.2.1.3. Be produced and printed exclusively in black and white.

7.3. **SOFT COPY FORMAT**

7.3.1. The OQRC must be provided as a PDF file with searchable text that matches the printed publication's format and layout. Links, bookmarks and thumbnails are to be included in the PDF file. All references made to a specific paragraph, figure, appendix must be appropriately linked.

7.3.2. Viewing the OQRC PDF: pages, regardless of size, containing text and illustrations in landscape, must be rotated for electronic viewing and reading in landscape.

7.3.3. **Soft Copy format submission size below 7MB** – The OQRC PDF and its native file may be submitted via email as follows:

7.3.3.1. To Field: As per the related CDRL section 9.A. Addressee, as identified in the contract.

7.3.3.2. Subject Field: UHPTK -ILS-208 – OQRC – [Rev #] – [Date of Issue]

7.3.4. **Soft Copy format submission size at or above 7MB** - The OQRC PDF and its native file must be submitted on CD or DVD media and be labelled as follows:

7.3.4.1. UNDERWATER HYDRAULIC POWER TOOL KIT

7.3.4.2. OQRC;

7.3.4.3. UHPTK -ILS-210;

7.3.4.4. The Revision number, and

7.3.4.5. The date of issue.