

Volume 2, Annex B

Statement of Work (Acquisition)

Underwater Warfare Suite Upgrade

24 February 2017

ID		Requirement Type
SOWP-1267	Volume 2, Annex B to W8472-135462 Statement of Work (Acquisition) Dated: 24 February 2017	Heading
SOWP-1268	Volume 2, Annex B Statement of Work (Acquisition) Underwater Warfare Suite Upgrade 24 February 2017	Heading
SOWP-1	1 SCOPE	Heading
SOWP-2	1.1 Purpose	Heading
SOWP-117	1.1.1 The purpose of this Statement of Work (SOW), Volume 2 Annex B, is to describe the work required of the Contractor by Canada to design, manufacture, test, and deliver the Underwater Warfare Sensor System (UWSS) as defined and specified in the UWSU System Requirements Document (SRD), included as Volume 2 Annex C.	Information
SOWP-1054	1.1.2 The UWSS specified in the SRD includes the ship-fitted sensor system, hardware and software, cabling and other equipment needed to meet the performance requirements of the SRD.	Information
SOWP-1055	1.1.3 In addition to the ship-fitted UWSS, ancillary equipment including hardware, software and documentation needed to maintain and support the system, to provide Halifax-class Combat System software change management capability, to train operators and maintainers, and to provide post-mission analysis capabilities in accordance with the SRD are within scope for the UWSU project.	Information
SOWP-3	1.2 Background	Heading
SOWP-353	1.2.1 The fundamental objectives of the UWSU Project are to overcome the deficiencies of the current Royal Canadian Navy (RCN) Halifax-class Underwater Warfare (UWW) suite consisting of sensors processing systems for Anti-Submarine Warfare (ASW) and to regain the Class's overall maritime combat capability.	Information
SOWP-568	1.2.2 As documented in the RCN's Statement of Operational Requirement, the specific objectives of the UWSU project are:	Introductory Text
SOWP-569	(a) to deliver a UWSS that will provide the Halifax-class with the sensors to provide adequate self-protection and survivability capabilities against submarines and torpedoes;	Information

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SOWP-355	(b) to provide persistent active and passive detection capabilities above and below the sonic layer;	Information
SOWP-356	(c) to acquire towed Low Frequency Active Sonar (LFAS) capability to enable development of expertise and concepts of operations (CONOPS) for bi-static and multi-static sonar techniques;	Information
SOWP-680	(d) to acquire a system comprised of Military-off-the-Shelf (MOTS) components, to the extent practical, to reduce project risk;	Information
SOWP-570	(e) to acquire a system that uses Commercial-Off-The-Shelf (COTS) components, open-architectures and modular design concepts to allow for economical and rapid implementation of future capabilities and upgrades; and	Information
SOWP-571	(f) to provide these capabilities in both single-ship independent deployer (SSID) and task group scenarios, and in both littoral and open ocean environments.	Information
SOWP-4	1.3 Shipboard Capability	Heading
SOWP-359	1.3.1 The Underwater Warfare Suite Upgrade will deliver a minimum of six ship-sets for the Halifax-class consisting of: an upgraded Hull Mounted Sonar, a new active and passive towed sonar system, a new sonobuoy processing system, a new active intercept capability and a new ownship noise monitoring system. Delivery of additional ship-sets for the Halifax-class beyond a minimum baseline of six (6) would be executed through options for additional Full-Up ship-sets or Fitted-For-But-Not-With (FFBNW) ship-set variants. Non-shipboard capabilities are described elsewhere in this SOW and the SRD.	Information
SOWP-1169	1.3.2 Ship-Sets Minimum Baseline	Heading
SOWP-1170	1.3.2.1 Work and deliveries must be executed and provided for six (6) full-up ships in accordance with all requirements of this SOW and the SRD.	Mandatory
SOWP-1171	1.3.3 Additional Full-Up Ship-Set Options	Heading
SOWP-1172	1.3.3.1 Canada must have the option for up to six (6) additional full-up ship-sets, in increments as low as one (1), including the extension of all respective work, requirements and deliverables as defined by this SOW and the SRD as related to or required to execute and deliver each additional full-up ship-set, as if it was included as part of the original baseline minimum of six (6) full-up ships.	Mandatory
SOWP-	1.3.4 FFBNW Training and Torpedo Detection (FFBNW-TT) Ship-Set	Heading

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1173	Options	
SOWP-1174	1.3.4.1 Canada must have the option for up to six (6) FFBNW-TT ship-sets, in increments as low as one (1), including the extension of all respective work, requirements and deliverables as defined by this SOW and the SRD as related to or required to execute and deliver each FFBNW-TT ship-set option, as if it was included as part of the original baseline minimum of six (6) full-up ships.	Mandatory
SOWP-1177	1.3.4.2 The FFBNW-TT option would result in additional ships only receiving a torpedo detection and training capability. This option would include the full UWSU solution for the HMS, SPS, and Torpedo Sensor Intercept and Classification (TORSIC) in order to detect torpedoes.	Information
SOWP-1178	1.3.4.3 This option would include the full solution for the UDMS and Operations Room consoles as well as the full solution for the shipboard embedded training requirements and system, integrated with the current Ship Embedded Training Tool (SETT) functions of CMS 330 in the exact manner and capacity as the full-up ships.	Information
SOWP-1179	1.3.4.4 This option would also include all required wires, racking and miscellaneous equipment/material in order to facilitate the rapid transfer of missing full-up ship-set components in order to complete the transition from FFBNW-TT to a full-up ship-set and the removal of legacy components that are not part of the full-up UWSU solution.	Information
SOWP-1180	1.3.4.5 Section 6.2 of the SRD further amplifies requirements related to FFBNW-TT.	Information
SOWP-1181	1.3.5 FFBNW Wires and Racks (FFBNW-WR) Ship-Set Options	Heading
SOWP-1182	1.3.5.1 Canada must have the option for up to six (6) FFBNW-WR ship-sets, in increments as low as one (1), including the extension of all respective work, requirements and deliverables as defined by this SOW and the SRD as related to or required to execute and deliver each FFBNW-WR ship-set option, as if it was included as part of the original baseline minimum of six (6) full-up ships.	Mandatory
SOWP-1183	1.3.5.2 The FFBNW-WR option would result in additional ships only receiving a baseline infrastructure capability. This option would result in FFBNW-WR ships having all legacy equipment and capability removed, and only having installed/included all required wires, racking and miscellaneous equipment/material in order to facilitate the rapid transfer of missing full-up ship-set components in order to complete the transition from FFBNW-WR to a full-up ship-set.	Information
SOWP-1184	1.3.5.3 Section 6.3 of the SRD further amplifies requirements related to FFBNW-WR.	Information

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SOWP-6	1.4 Definitions	Heading
SOWP-360	1.4.1 The Glossary of Abbreviations and Definitions is included as Volume 2 Annex D of this RFP.	Information
SOWP-362	1.4.2 The following definitions are applicable to this SOW:	Information
SOWP-363	(a) Working hours: Occurring during a working day, being Monday, Tuesday, Wednesday, Thursday, or Friday between the hours of 0800-1700 local time. In counting working days, Canadian Public Holidays must be excluded.	Information
SOWP-364	(b) Week: Calendar week.	Information
SOWP-365	(c) Month: Calendar month.	Information
SOWP-366	1.5 Clause References	Heading
SOWP-367	1.5.1 Within this SOW, references to paragraph numbers refer only to paragraphs within this SOW unless otherwise stated. A reference to any paragraph in this SOW constitutes a reference to both the paragraph and all subparagraphs of the clause.	Information
SOWP-7	2 APPLICABLE DOCUMENTS	Heading
SOWP-11	2.1 Applicability	Heading
SOWP-1113	2.1.1 The following documents, standards and definitions form part of this Contract to the extent specified in the individual Annexes, Appendices and Attachments. Unless otherwise stated, the dates of issue, revision or amendment in effect for each reference must be based on those in effect as of the date of the UWSU RFP release. Wherever a specific paragraph of a document is referenced as part of a requirement, all subparagraphs of the referenced paragraph must apply, unless otherwise indicated.	Mandatory
SOWP-368	2.1.2 The following documents support the SOW and must be considered as supplemental information if not specifically identified in the text. In the event of conflicts between the documents referenced below and the content of the SOW, the contents of the SOW must take precedence.	Mandatory
SOWP-12	2.2 References	Heading
SOWP-14	2.2.1 Commercial Standards	Heading

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SOWP-666	2.2.1.1 IEEE Std 1220:2005, Institute of Electrical and Electronics Engineers (IEEE) Standard for Application and Management of the Systems Engineering Process	Information
SOWP-665	2.2.2 Commercial Publications	Heading
SOWP-1085	2.2.2.1 Software Engineering Institute (SEI) Computer Emergency Response Team (CERT) Top 10 Secure Coding Practices, Carnegie Mellon University, CERT Division	Information
SOWP-1086	2.2.2.2 Common Weakness Enumerations (CWE) / SysAdmin, Audit, Network, and Security (SANS) Top 25 Most Dangerous Software Errors, SANS Institute	Information
SOWP-1087	2.2.2.3 CMU/SEI-2009-TR-010, Secure Design Patterns, Carnegie Mellon University, Software Engineering Institute	Information
SOWP-15	2.2.3 Canadian Forces Specifications and Standards	Heading
SOWP-1088	2.2.3.1 A-GG-040-004/AG-001, General Safety Program - Hazardous Material Safety and Management Manual	Information
SOWP-1238	2.2.3.2 A-LM-184-001/JS-001, Special Instructions - Repair and Overhaul Contractors	Information
SOWP-1234	2.2.3.3 A-LM-187-001/JS-001, Packaging and Preservation, Volume 1, General Procedures	Information
SOWP-1235	2.2.3.4 A-LM-187-002/JS-001, Packaging and Preservation, Volume 2, Detailed Procedures	Information
SOWP-1324	2.2.3.5 A-LM-505-054/JS-001, Procedures for the Production and Maintenance of Equipment Support Lists (ESLs)	Information
SOWP-1090	2.2.3.6 A-P9-050-000/PT-003, Canadian Forces Individual Training and Education System (CFITES) Volume 3, Analysis of Instructional Requirements	Information
SOWP-1091	2.2.3.7 A-P9-050-000/PT-004, Canadian Forces Individual Training and Education System (CFITES) Volume 4, Design of Instructional Programmes	Information
SOWP-1092	2.2.3.8 C-01-000-100/AG-004, Production and Acquisition of Engineering Data; See Note (*1)	Information
SOWP-1093	2.2.3.9 C-01-100-100/AG-005, Acceptance of Commercial Foreign Government Publications as Adopted Publications	Information
SOWP-1094	2.2.3.10 C-01-100-100/AG-006, Writing Format and Production of Technical Publications	Information
SOWP-1095	2.2.3.11 C-03-005-012/AM-001, Naval Materiel Management System Manual	Information
SOWP-504	2.2.3.12 C-03-010-000/AG-002, Emissions Security (EMSEC) Design, Installation and Maintenance Guidelines for Naval Ships; See Note	Information

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	(*1)	
SOWP-503	2.2.3.13 C-03-010-000/MM-001, Canadian Naval Shipboard Techniques for Electromagnetic Compatibility	Information
SOWP-1089	2.2.3.14 C-03-007-000/AG-001, Guide, Development of Engineering Change Installation Package; See Note (*1)	Information
SOWP-1274	2.2.3.15 D-01-002-005/SG-001, Standard for Preparation of Canadian Forces Contract Data Requirements List (CDRL); See Note (*1)	Information
SOWP-502	2.2.3.16 D-01-002-007/SG-006, Requirements for the Selection of Configuration Items	Information
SOWP-1096	2.2.3.17 D-01-002-007/SG-001, Requirements for the Preparation of Configuration Management Plans	Information
SOWP-1097	2.2.3.18 D-01-100-207/SF-000, Preparation of Parts Identification List	Information
SOWP-1098	2.2.3.19 D-01-100-214/SF-000, Specification for Preparation of Provisioning Documentation for Canadian Forces Equipment	Information
SOWP-1099	2.2.3.20 D-01-100-226/SF-001, Specification for Preparation of Test Sheets	Information
SOWP-1100	2.2.3.21 D-01-400-002/SF-000, Drawings, Engineering and Associated Lists	Information
SOWP-1101	2.2.3.22 D-01-400-001/SG-000, Engineering Drawing Practices; See Note (*1)	Information
SOWP-1102	2.2.3.23 D-02-002-001/SG-001, Identification Marking of Canadian Military Property	Information
SOWP-1129	2.2.3.24 D-03-003-007/SG-000, Specification for Design and Test Criteria for Shock Resistant Equipment in Naval Ships; See Note (*1)	Information
SOWP-1103	2.2.3.25 DAOD 2006-0, Defence Security	Information
SOWP-1104	2.2.3.26 A-SJ-100-001/AS-000, National Defence Security Orders and Directives	Information
SOWP-683	2.2.4 Government of Canada Publications	Heading
SOWP-684	2.2.4.1 CSEC ITSG-33, Communications Security Establishment Canada (CSEC) IT Security Risk Management: A Lifecycle Approach	Information
SOWP-1111	2.2.4.2 CSEC ITSG-33 Annex 2, Information System Security Risk Management Activities	Information
SOWP-1112	2.2.4.3 CSEC ITSG-33 Annex 3A, Security Control Catalogue, December 2014	Information
SOWP-1105	2.2.4.4 Health Canada Reference Manual for Workplace Hazardous Materials Information System (WHMIS) Requirements of the Hazardous Products Act and Controlled Product Regulations	Information
SOWP-	2.2.4.5 SAAG, Security Assessment and Authorization Guideline	Information

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1106	(SAAG)	
SOWP-686	2.2.5 United States Government Publications	Heading
SOWP-733	2.2.5.1 NIST SP 800-18, Guide for Developing Security Plans for Federal Information Systems	Information
SOWP-1065	2.2.5.2 NIST SP 800-53A, Assessing Security and Privacy Controls in Federal Information Systems and Organizations: Building Effective Assessment Plans, Rev. 4	Information
SOWP-687	2.2.5.3 NIST SP 800-160, Systems Security Engineering: An Integrated Approach to Building Trustworthy Resilient Systems	Information
SOWP-16	2.2.6 NATO Standards	Heading
SOWP-471	2.2.6.1 ACMP-3, NATO REQUIREMENTS FOR CONFIGURATION CONTROL - ENGINEERING CHANGES, DEVIATIONS AND WAIVERS	Information
SOWP-1115	2.2.6.2 ACMP-4 (edition 1-1998), NATO Requirements for Configuration Status Accounting	Information
SOWP-468	2.2.6.3 AQAP-160 (edition 1), NATO INTEGRATED QUALITY REQUIREMENTS FOR SOFTWARE THROUGHOUT THE LIFE CYCLE	Information
SOWP-467	2.2.6.4 AQAP-2110 (edition 3), NATO QUALITY ASSURANCE REQUIREMENTS FOR DESIGN, DEVELOPMENT AND PRODUCTION	Information
SOWP-1132	2.2.6.5 STANAG 1008, CHARACTERISTICS OF SHIPBOARD LOW VOLTAGE ELECTRICAL POWER SYSTEMS IN WARSHIPS OF THE NATO NAVIES	Information
SOWP-17	2.2.7 Mil Standards	Heading
SOWP-1128	2.2.7.1 MIL-S-901D, MILITARY SPECIFICATION: SHOCK TESTS. H.I. (HIGH-IMPACT) SHIPBOARD MACHINERY, EQUIPMENT, AND SYSTEMS, REQUIREMENTS FOR	Information
SOWP-1130	2.2.7.2 MIL-STD-167-1A, DEPARTMENT OF DEFENSE TEST METHOD STANDARD, MECHANICAL VIBRATIONS OF SHIPBOARD EQUIPMENT (TYPE I - ENVIRONMENTAL AND TYPE II - INTERNALLY EXCITED)	Information
SOWP-466	2.2.7.3 MIL-STD-461F, REQUIREMENTS FOR THE CONTROL OF ELECTROMAGNETIC INTERFERENCE CHARACTERISTICS OF SUBSYSTEMS AND EQUIPMENT	Information
SOWP-1131	2.2.7.4 MIL-STD-810G, DEPARTMENT OF DEFENSE TEST METHOD STANDARD, ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS	Information
SOWP-469	2.2.7.5 MIL-STD-881C, WORK BREAKDOWN STRUCTURES FOR DEFENSE MATERIEL ITEMS	Information
SOWP-465	2.2.7.6 MIL-STD-882E, SYSTEM SAFETY	Information

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SOWP-1127	2.2.7.7 MIL-W-21965D, WATER COOLING OF SHIPBOARD ELECTRONIC EQUIPMENT, GENERAL SPECIFICATION FOR	Information
SOWP-472	2.2.7.8 SMC-S-021, TECHNICAL REVIEWS AND AUDITS FOR SYSTEMS, EQUIPMENT AND COMPUTER SOFTWARE	Information
SOWP-1122	2.2.8 Notes	Heading
SOWP-1123	2.2.8.1 (*1) Publication referenced for contractual completeness only. Publication will be made available by Canada only after contract award.	Information
SOWP-8	3 GENERAL REQUIREMENTS	Heading
SOWP-18	3.1 Deliverables	Heading
SOWP-116	3.1.1 The Contractor must manage and execute the work detailed in this SOW, for the delivery of systems, associated support items, and associated documentation.	Mandatory
SOWP-370	3.1.2 The Contractor must procure or manufacture, integrate, test and deliver software and hardware as required to satisfy the requirements of this SOW and the UWSU System Requirements Document (SRD) including associated annexes.	Mandatory
SOWP-19	3.2 Contract Data Requirements	Heading
SOWP-114	3.2.1 The Contractor must prepare and deliver the data required under the Contract in accordance with the Contract Data Requirements List (CDRL) at Appendix 1 and their associated Data Item Descriptions (DIDs) at Appendix 2.	Mandatory
SOWP-667	3.2.2 The Contractor must implement a secure Collaborative Environment (CE) for remote access of unclassified information over the Internet that facilitates program management between the Contractor and Canada.	Mandatory
SOWP-1066	3.2.3 The CE must:	Mandatory
SOWP-1067	(a) provide ability to display all project related information including the integrated master schedule, resource and cost management;	Mandatory
SOWP-1068	(b) provide a viewer to display Drawings and Documents; and	Mandatory
SOWP-1070	(c) provide a Drop Box facility for uploading and downloading documents by the Contractor and Canada.	Mandatory
SOWP-115	3.2.4 The Contractor must maintain and update all data deliverables in accordance with the approved Configuration Management Plan.	Mandatory

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SOWP-1069	3.2.5 The Contractor must use the CE to provide information that includes all reports, plans, schedules and other data deliverables as defined by Appendices 1 and 2 required through the contract.	Mandatory
SOWP-20	3.3 Office Software	Heading
SOWP-111	3.3.1 Unless otherwise required in specific DIDs, the Contractor must deliver all data deliverables in formats compatible with the office software in current use by the Department of National Defence (DND), as listed below.	Mandatory
SOWP-344	(a) Microsoft Office;	Mandatory
SOWP-345	(b) Microsoft Project;	Mandatory
SOWP-346	(c) Microsoft Visio;	Mandatory
SOWP-347	(d) Adobe Acrobat Reader; and	Mandatory
SOWP-348	(e) IBM Rational DOORS.	Mandatory
SOWP-112	3.3.2 Those compatible formats must allow the files to be recognized, opened, and viewed or read in their intended form and format using DND's office software, and allowing the user to modify, select, copy and paste information from the files to other DND office software files.	Mandatory
SOWP-113	3.3.3 If a Contractor's deliverables are in PDF format, then the source files in their original native format must also be submitted.	Mandatory
SOWP-403	3.4 Security Management	Heading
SOWP-404	3.4.1 Aspects of the work related to the design, specification, development, production, installation and testing of the upgrade may be of a classified nature. The Contractor must comply with the requirements for personnel and facilities security clearances that are identified in the Volume 2 Annex A Security Requirements Check List (SRCL) (Acquisition).	Mandatory
SOWP-9	4 PROJECT MANAGEMENT	Heading
SOWP-21	4.1 Project Management Program	Heading
SOWP-378	4.1.1 The Contractor must establish an organization, headed by a single Project Manager, to carry out the work required for the UWSU project.	Mandatory

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SOWP-119	4.1.2 The Contractor must prepare a Project Management Plan (PMP), and deliver and maintain all updates to it, in accordance with the requirements of CDRL-001 and UWSU-DID-PM-001.	Mandatory
SOWP-122	4.1.3 Through the implementation of the approved Project Management Plan, the Contractor must ensure that all products being designed, manufactured, assembled, inspected, tested and delivered fully meet all requirements of the Contract and that all requirements are traceable to the final product.	Mandatory
SOWP-1120	4.1.4 The Contractor must prepare a Transition Plan, and deliver and maintain all updates to it, in accordance with the requirements of CDRL-043 and UWSU-DID-ILS-007.	Mandatory
SOWP-1121	4.1.5 Through the implementation of the approved Transition Plan, the Contractor must ensure that all delivered materials, services and information are transitioned to In-service Support.	Mandatory
SOWP-124	4.1.6 The Contractor's Project Manager must have the responsibility and authority to schedule, plan, organize, direct, coordinate, execute, monitor, control, provide orderly resource management, communicate, report, manage risk, manage environmental health and safety issues and impacts, and close action items for all Work required under the Contract.	Mandatory
SOWP-125	4.1.7 The Contractor's Project Manager must be the primary point of contact between the Contractor and the DND Project Manager/Technical Authority (DND PM/TA) and PSPC Contracting Authority (CA) for all issues related to the Contract.	Mandatory
SOWP-423	4.1.8 Meetings	Heading
SOWP-424	4.1.8.1 The Contractor must host and attend program reviews and other meetings as required by this SOW, at the Contractor's facilities or elsewhere as mutually agreed to with the DND PM/TA.	Mandatory
SOWP-426	4.1.8.2 For all reviews and meetings hosted by the Contractor, the Contractor must:	Mandatory
SOWP-428	(a) Arrange the venue;	Mandatory
SOWP-429	(b) Coordinate with DND PM/TA and CA as appropriate;	Mandatory
SOWP-430	(c) Provide all administrative facilities and presentation equipment;	Mandatory
SOWP-431	(d) Ensure that qualified Contractor's and subcontractor personnel attend the review or meeting;	Mandatory
SOWP-432	(e) Ensure and provide evidence that action items and decisions under the control of the Contractor as a result of the	Mandatory

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	various meetings and reviews are implemented where applicable; and	
SOWP-433	(f) Maintain files, records and documents of all reviews.	Mandatory
SOWP-526	4.1.8.3 The Contractor must prepare and deliver the Meeting Agenda for each meeting in accordance with the requirements of CDRL-003 and UWSU-DID-PM-003.	Mandatory
SOWP-435	4.1.8.4 The Contractor must prepare the meeting minutes in accordance with CDRL-005 and UWSU-DID-PM-005.	Mandatory
SOWP-24	4.1.9 Action Item Tracking	Heading
SOWP-155	4.1.9.1 The Contractor must establish and maintain an Issue Tracking Database (ITDB) to be used to monitor issues, assign responsibility, direct action and track status.	Mandatory
SOWP-156	4.1.9.2 The ITDB must electronically store Action Item data in a searchable, structured database.	Mandatory
SOWP-157	4.1.9.3 The ITDB must be used to maintain a repository of historical information and to generate an Action Item List (AIL).	Mandatory
SOWP-158	4.1.9.4 The Contractor must generate and deliver an up-to-date AIL from the ITDB as part of the Monthly Progress Report in accordance with CDRL-004 and UWSU-DID-PM-004.	Mandatory
SOWP-159	4.1.9.5 The Contractor must collect and document all pertinent information in the ITDB.	Mandatory
SOWP-160	4.1.9.6 All information in the ITDB must be retained for the duration of the contract.	Mandatory
SOWP-22	4.2 Project Master Schedule	Heading
SOWP-127	4.2.1 The PMP must include a Project Master Schedule (PMS), prepared in accordance with the requirements of CDRL-002 and UWSU-DID-PM-002.	Mandatory
SOWP-388	4.2.2 The Contractor must carry out the work in accordance with the approved PMS.	Mandatory
SOWP-128	4.2.3 The approved PMS must be the governing document for scheduling activities.	Mandatory
SOWP-386	4.2.4 Once first approved, this schedule must form the initial baseline.	Mandatory
SOWP-387	4.2.5 Thereafter, the Contractor must not modify the baseline without (a) the approval of the CA and (b) the necessary contract amendment incorporating the revised baseline.	Mandatory
SOWP-131	4.2.6 The Contractor must implement and maintain the PMS in accordance with the PMP for the duration of the Contract.	Mandatory

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SOWP-505	4.3 Scope Management	Heading
SOWP-506	4.3.1 The Contractor must implement the scope of the work specified in this SOW in accordance with the project management processes of the PMP, authorized by Canada.	Mandatory
SOWP-507	4.3.2 The Contractor must implement all authorized in scope unforeseen work to this SOW in accordance with corresponding schedule and plan changes authorized by Canada.	Mandatory
SOWP-508	4.3.3 The Contractor must supply all resources required to implement the scope of the work specified in this SOW, except for Government Furnished Resources (GFR) as detailed in this SOW.	Mandatory
SOWP-1237	4.3.4 The provision of Government Furnished Resources or Equipment must not relieve the Contractor from their responsibility for meeting all requirements as defined in this SOW and the SRD.	Mandatory
SOWP-27	4.4 Risk Management	Heading
SOWP-168	4.4.1 The Contractor must perform Risk Management (RM) activities throughout the span of the project in accordance with the PMP.	Mandatory
SOWP-169	4.4.2 The RM Plan must address the total risk management process: risk identification, risk assessment and risk mitigation.	Mandatory
SOWP-170	4.4.3 Risk factors, their probabilities and effects on the project, together with a suitable risk management strategy, action and contingency planning, must be assessed and monitored.	Mandatory
SOWP-171	4.4.4 RM must include subcontractor activities for all subcontractor work directed to this SOW.	Mandatory
SOWP-380	4.5 Configuration Management	Heading
SOWP-381	4.5.1 The PMP must include a Configuration Management Plan.	Mandatory
SOWP-382	4.5.2 The Configuration Management Program is addressed fully in Section 6.	Information
SOWP-383	4.6 Subcontractor Management	Heading
SOWP-384	4.6.1 The Contractor must establish, follow and maintain a Subcontractor Management Plan that defines how the Contractor controls, manages and tracks the performance of all first-tier contractors and suppliers.	Mandatory
SOWP-385	4.6.2 The Subcontract Management Plan must be documented as part of the PMP.	Mandatory
SOWP-390	4.7 Data Management	Heading

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SOWP-393	4.7.1 The Contractor's Data Management Plan must be documented as part of the PMP.	Mandatory
SOWP-391	4.7.2 The Contractor must establish, follow and maintain the Data Management Plan that defines how the Contractor controls, manages and tracks the data and information associated with the UWSU project.	Mandatory
SOWP-400	4.8 Integrated Logistic Support	Heading
SOWP-402	4.8.1 The Contractor's Preliminary Integrated Logistic Support (ILS) Plan must be documented as part of the PMP.	Mandatory
SOWP-401	4.8.2 The Contractor must establish, follow and maintain the ILS Plan that defines how the Contractor will conduct ILS associated with the UWSU project.	Mandatory
SOWP-405	4.8.3 The ILS Program is addressed fully in Section 7.	Information
SOWP-392	4.9 Quality Assurance	Heading
SOWP-394	4.9.1 The Contractor must prepare a Quality Assurance (QA) Plan as part of the PMP in accordance with the requirements of AQAP-2110 and AQAP-160.	Mandatory
SOWP-397	4.9.2 The Quality Management Program is addressed fully in Section 8.	Information
SOWP-23	4.10 Program Review Meetings	Heading
SOWP-133	4.10.1 The Contractor must schedule, plan and organize Program Review Meetings (PRMs) on a quarterly basis, or as and when required by Canada.	Mandatory
SOWP-134	4.10.2 The PRMs must be held by teleconferencing when a face-to-face meeting is not practical or possible.	Mandatory
SOWP-135	4.10.3 During each PRM the Contractor must provide a status of the overall contracted project, including programmatic, production, test, Integrated Logistics Support, subcontract, risk issues, and progress as related to the Contract Work Breakdown Structure (CWBS) (as defined in the PMP) and the Project Master Schedule.	Mandatory
SOWP-136	4.10.4 The Contractor must ensure that Contractor data, personnel and facilities are available for each formal meeting in order that the meetings may be conducted in an efficient manner.	Mandatory
SOWP-132	4.10.5 There must be a Kick-off meeting after Contract Award, at a timing to be determined between Canada and the Contractor.	Mandatory
SOWP-137	4.10.6 The initial PRM must be held at the Contractor's facilities between two (2) and three (3) months following the Kick-off meeting.	Mandatory

ID		Requirement Type
SOWP-138	4.10.7 The Contractor must prepare and deliver the Meeting Agenda for each PRM in accordance with the requirements of CDRL-003 and UWSU-DID-PM-003.	Mandatory
SOWP-139	4.10.8 The Contractor must record, prepare and deliver the minutes of each PRM in accordance with the requirements of CDRL-005 and UWSU-DID-PM-005.	Mandatory
SOWP-141	4.10.9 The Contractor must review, with all meeting members present, the changes and additions to the Action Item List as noted during the PRM.	Mandatory
SOWP-142	4.10.10 Canada will approve the changes and additions prior to adjourning the PRM, and the resulting changes must be reflected in the Meeting Minutes.	Mandatory
SOWP-143	4.10.11 Canada and the Contractor must co-chair the PRMs.	Mandatory
SOWP-144	4.10.12 The Contractor's Project Manager must be present at all PRMs.	Mandatory
SOWP-145	4.10.13 If the Contractor's Project Manager does not have final approval authority for decision making and changes, then the person that has that final approval authority must also be present at all PRMs.	Mandatory
SOWP-146	4.10.14 The PRMs must include the following agenda items for discussion:	Mandatory
SOWP-147	(a) PMS and updates;	Mandatory
SOWP-148	(b) the Action Item List from the ITDB;	Mandatory
SOWP-149	(c) Contractual issues;	Mandatory
SOWP-150	(d) Financial issues;	Mandatory
SOWP-151	(e) Technical issues;	Mandatory
SOWP-152	(f) Integrated Logistic Support (ILS) issues; and	Mandatory
SOWP-153	(g) Environmental, Health and Safety issues.	Mandatory
SOWP-1283	4.10.15 Each PRM must also include a review of all proposed changes to Data Items classed as Management Data in accordance with the Contract Data Requirements List, Appendix 1 of this SOW.	Mandatory
SOWP-1284	4.10.16 The PRM Data Item Review must include reviews of all proposed changes to delivery points for the Data Items.	Mandatory

ID		Requirement Type
SOWP-1313	4.10.17 The PRM Data Item Review must include reviews of all proposed changes to Data Item content following the initial delivery and acceptance of the Data Item by Canada.	Mandatory
SOWP-1285	4.10.18 The Contractor must forward Data Item change proposals no less than 2 weeks in advance of each review, as applicable.	Mandatory
SOWP-1314	4.10.19 The Contractor must not implement Data Item changes without approval from Canada.	Mandatory
SOWP-154	4.10.20 The Contractor or the TA may schedule informal reviews such as conferences, briefings and technical interchange meetings as required, using Tele- or Video-Conference facilities whenever possible. Otherwise, the Contractor must hold informal reviews in conjunction with formal reviews where possible.	Mandatory
SOWP-422	4.10.21 The Contractor must hold a Final Program Review to provide a complete review of all contractual requirements at a time to be determined by the CA but such a meeting must take place not later than 30 days after acceptance of the last deliverable.	Mandatory
SOWP-413	4.11 Technical Review Meetings	Heading
SOWP-414	4.11.1 Technical Review Meetings (TRMs) are similar to PRMs but address issues of a technical nature only.	Information
SOWP-415	4.11.2 The Contractor must host TRMs as required.	Mandatory
SOWP-1316	4.11.3 Canada and the Contractor must co-chair the TRMs.	Mandatory
SOWP-417	4.11.4 Whenever possible, TRMs must be held immediately prior to or following PRMs so as to minimize travel costs.	Mandatory
SOWP-416	4.11.5 At TRMs, the Contractor must present all relevant information including known problems, solutions being proposed, and potential impact to project schedules.	Mandatory
SOWP-418	4.11.6 The Contractor must prepare and deliver the Meeting Agenda for each TRM and record and deliver TRM minutes in accordance with the requirements of CDRL-003, UWSU-DID-PM-003, CDRL-005 and UWSU-DID-PM-005 respectively.	Mandatory
SOWP-477	4.11.7 The Contractor must host and conduct, at a minimum, the following TRMs:	Mandatory
SOWP-478	(a) System Requirements Review;	Mandatory
SOWP-479	(b) Preliminary Design Review;	Mandatory
SOWP-480	(c) Critical Design Review;	Mandatory

ID		Requirement Type
SOWP-481	(d) Integrated Logistic Support Conference;	Mandatory
SOWP-482	(e) Initial Provisioning Conference;	Mandatory
SOWP-483	(f) Factory Acceptance Test Readiness Review;	Mandatory
SOWP-484	(g) First Article Qualification Review; and	Mandatory
SOWP-1124	(h) Transition Readiness Review.	Mandatory
SOWP-1312	4.11.8 Each TRM must also include a review of all proposed changes to Data Items classed as Systems Engineering Data, Integrated Logistic Support Data, and Technical Data in accordance with the Contract Data Requirements List, Appendix 1 of this SOW.	Mandatory
SOWP-1288	4.11.9 The TRM Data Item Review must include reviews of all proposed changes to delivery points for the Data Items.	Mandatory
SOWP-1275	4.11.10 The TRM Data Item Review must include reviews of all proposed changes to Data Item content following the initial delivery and acceptance of the Data Item by Canada.	Mandatory
SOWP-1293	4.11.11 Unless otherwise specified by the individual CDRL, the Contractor must forward Data Item change proposals no less than 2 weeks in advance of each review.	Mandatory
SOWP-1315	4.11.12 The Contractor must not implement Data Item changes without approval from Canada.	Mandatory
SOWP-25	4.12 Progress Reports	Heading
SOWP-161	4.12.1 The Contractor must prepare and submit Monthly Progress Reports (MPRs) in accordance with CDRL-004 and UWSU-DID-PM-004.	Mandatory
SOWP-164	4.12.2 Organization of the MPRs must be such as to provide continuity of information from one month to the next by the order of appearance of items in the MPR.	Mandatory
SOWP-443	4.13 Engineering Analysis Reports	Heading
SOWP-444	4.13.1 There may be instances where additional engineering analysis is required during the execution of work under this SOW.	Information
SOWP-445	4.13.2 The Contractor must document engineering analyses in Engineering Analysis Reports in accordance with CDRL-020 and UWSU-DID-SE-013.	Mandatory
SOWP-97	4.14 Contractor Point of Contact	Heading

ID		Requirement Type
SOWP-332	4.14.1 The Contractor must provide contact information so that DND may notify the Contractor of requests or other requirements during non-working hours.	Mandatory
SOWP-334	4.14.2 The TA will provide similar information to assist in the coordination of efforts with DND.	Information
SOWP-406	4.15 Contractor Access to Customer Sites	Heading
SOWP-407	4.15.1 The Contractor may be provided access to Customer sites, on an as-required and non-interference basis, to allow the Contractor to view systems and obtain relevant data. Site visits may also be used to interview Customer Subject Matter Experts to determine or confirm equipment functionality and operational parameters.	Information
SOWP-408	4.15.2 The Contractor must request visits to Customer sites through the DND PM/TA.	Mandatory
SOWP-409	4.15.3 The Contractor must provide at least two (2) weeks' notice for potential visits.	Mandatory
SOWP-410	4.15.4 The Contractor must include in the request the purpose of the visit, the names, birth dates and places, and security clearance levels/numbers for all involved Contractor and subcontractor personnel.	Mandatory
SOWP-411	4.15.5 The DND PM/TA will attempt to arrange Visit Clearances and access to the site within the requested timeframe, however, specific dates and times of site visits will be finalized by the DND PM/TA.	Information
SOWP-440	4.16 Problem Reporting	Heading
SOWP-441	4.16.1 The Contractor must advise the DND PM/TA and CA by phone, fax or e-mail within three (3) days of the date the Contractor determines that a contractual requirements is at risk of not being met.	Mandatory
SOWP-442	4.16.2 Upon such notification, the DND PM/TA will advise whether an unscheduled meeting or other action is required.	Information
SOWP-10	5 SYSTEMS ENGINEERING	Heading
SOWP-28	5.1 Systems Engineering Management Plan	Heading
SOWP-173	5.1.1 The Contractor must prepare, maintain and deliver a Systems Engineering Management Plan (SEMP) in accordance with CDRL-008 and UWSU-DID-SE-001.	Mandatory
SOWP-172	5.1.2 The Contractor must maintain the SEMP for the duration of the procurement contract.	Mandatory
SOWP-	5.2 Specific Systems Engineering Requirements	Heading

ID		Requirement Type
1206		
SOWP-1137	5.2.1 UDMS to CMS 330 Interface	Heading
SOWP-1138	5.2.1.1 Interface Development	Heading
SOWP-1139	5.2.1.1.1 The Contractor must define, design, implement, and test the UDMS to CMS 330 Interface in order to meet the requirements of the SOW and the SRD.	Mandatory
SOWP-1140	5.2.1.1.2 Canada will create a CMS 330 In-Service Support (ISS) tasking from which the CMS 330 ISS Contractor will provide CMS 330 technical engineering information and support for assisting with finalization of definition, design, implementation, and testing of the UDMS to CMS 330 Interface.	Information
SOWP-1141	5.2.1.1.3 The Contractor must liaise with Canada's CMS 330 ISS Contractor in order to finalize the definition, design, implementation, and testing for the UDMS to CMS 330 Interface.	Mandatory
SOWP-1142	5.2.1.2 Interface Design Documentation	Heading
SOWP-1143	5.2.1.2.1 The Contractor must prepare, maintain, update, and deliver the UDMS to CMS 330 Interface Design documentation in accordance to CDRL-011, Interface Design Document, and UWSU-DID-SE-004, Interface Design Document.	Mandatory
SOWP-1144	5.2.1.2.2 The Contractor must maintain the UDMS to CMS 330 Interface Design documentation to reflect all UDMS to CMS 330 Interface changes authorized by Canada in accordance with Section 6 of this SOW.	Mandatory
SOWP-1145	5.2.1.2.3 The Contractor must update the UDMS to CMS 330 Interface Design documentation to reflect modifications required resulting from design, implementation, test, integration, and test and trials activities.	Mandatory
SOWP-1146	5.2.1.2.4 The Contractor must update the UDMS to CMS 330 Interface Design documentation to reflect comments provided by Canada and Canada's CMS 330 ISS Contractor as part of finalization processes.	Mandatory
SOWP-1147	5.2.1.3 UWSS/CMS 330 Integration	Heading
SOWP-1148	5.2.1.3.1 The Contractor must perform UWSS/CMS 330 integration testing activities with Canada's Combat System Test Facilities at the Combat Systems Support Center – East (CSSC(E)).	Mandatory
SOWP-1149	5.2.1.3.2 Canada's CMS 330 ISS Contractor will provide CMS 330 technical engineering information and support for the UWSS/CMS	Information

ID		Requirement Type
	330 integration testing activities.	
SOWP-1150	5.2.1.3.3 The Contractor must conduct UWSS/CMS 330 integration testing activities at the Combat Systems Test Facilities using a combination of existing CMS 330 equipment, modified CMS 330 equipment, and UWSS equipment delivered to CSSC(E).	Mandatory
SOWP-1247	5.2.1.3.4 The First Article FAT for the entire UWSS must be successfully completed before proceeding to UWSS/CMS 330 integration testing at CSSC(E).	Mandatory
SOWP-1248	5.2.1.3.5 The prescribed for UWSS/CMS 330 integration testing at CSSC(E) must be successfully completed before proceeding to First Article HAT.	Mandatory
SOWP-1151	5.2.1.4 Support for CMS 330 ISS Contractor Interface Development and Integration Activities	Heading
SOWP-1152	5.2.1.4.1 The Contractor must provide the UWSS technical engineering information and support to Canada's CMS 330 ISS Contractor in support of the CMS 330 ISS engineering activities to design, implement, test, and integrate the UWSS/CMS 330 Interface, as part of the overall UWSU System Engineering work prescribed under the UWSU SOW.	Mandatory
SOWP-1153	5.2.1.4.2 The Contractor must attend, support, and participate in the CMS 330 ISS Integration engineering reviews and activities.	Mandatory
SOWP-1154	5.2.1.4.3 The Contractor must review and provide comments to CMS 330 ISS Integration engineering documentation.	Mandatory
SOWP-1155	5.2.2 UDMS to Navigation Data Distribution System (NavDDS) Interface	Heading
SOWP-1156	5.2.2.1 Interface Development	Heading
SOWP-1157	5.2.2.1.1 The Contractor must design, implement, and test the UDMS to NavDDS interface in order to meet the requirements of the SOW and the SRD.	Mandatory
SOWP-1158	5.2.2.1.2 Canada will create a NavDDS tasking from which Canada's NavDDS technical authority will provide the NavDDS technical engineering information and support for assisting with finalization of design, implementation, and testing of the UDMS to NavDDS Interface.	Information
SOWP-1159	5.2.2.1.3 The Contractor must liaise with Canada's NavDDS technical authority in order to finalize the design, implementation, and testing for the UDMS to NavDDS Interface.	Mandatory
SOWP-1160	5.2.2.2 Interface Design Documentation	Heading
SOWP-	5.2.2.2.1 The Contractor must prepare, maintain, update, and deliver	Mandatory

ID		Requirement Type
1161	the UDMS to NavDDS Interface Design documentation in accordance to CDRL-011, Interface Design Document, and UWSU-DID-SE-004, Interface Design Document.	
SOWP-1162	5.2.2.2.2 The Contractor must maintain the UDMS to NavDDS Interface Design documentation to reflect all UDMS to NavDDS Interface changes authorized by Canada in accordance with Section 6 of this SOW.	Mandatory
SOWP-1163	5.2.2.2.3 The Contractor must update the UDMS to NavDDS Interface Design documentation to reflect modifications required resulting from design, implementation, test, integration, and test and trials activities.	Mandatory
SOWP-1164	5.2.2.2.4 The Contractor must update the UDMS to NavDDS Interface Design documentation to reflect comments provided by Canada as part of finalization processes.	Mandatory
SOWP-1165	5.2.2.3 UWSS/NavDDS Integration	Heading
SOWP-1166	5.2.2.3.1 The Contractor must perform UWSS/NavDDS integration testing activities with Canada's Combat Systems Test Facilities at the CSSC(E).	Mandatory
SOWP-1167	5.2.2.3.2 Canada's NavDDS technical authority will provide NavDDS technical engineering information and support for the UWSS/NavDDS integration testing activities.	Information
SOWP-1168	5.2.2.3.3 The Contractor must conduct UWSS/NavDDS integration testing activities with the Combat Systems Test Facilities using a combination of existing NavDDS equipment and UWSS equipment delivered to CSSC(E).	Mandatory
SOWP-1249	5.2.2.3.4 The First Article FAT for the entire UWSS must be successfully completed before proceeding to UWSS/NavDDS integration testing at CSSC(E).	Mandatory
SOWP-1250	5.2.2.3.5 The prescribed for UWSS/NavDDS integration testing at CSSC(E) must be successfully completed before proceeding to First Article HAT.	Mandatory
SOWP-1185	5.2.3 Shore-based UWSS System for Combat Systems at Combat Systems Support Center (East)	Heading
SOWP-1186	5.2.3.1 Shore-Based UWSS System and Interface Development	Heading
SOWP-1187	5.2.3.1.1 The Contractor must define, design, implement, and test the Shore-based UWSS System and its interface to the Combat Systems synthetic environment at the Combat Systems Support Center (East), in order to meet requirements of the SOW and the SRD.	Mandatory
SOWP-	5.2.3.1.2 Canada will create a CMS 330 ISS tasking from which the	Information

ID		Requirement Type
1188	CMS 330 ISS Contractor will provide Combat Systems synthetic environment technical engineering information and support for assisting with finalization of definition, design, implementation, and testing of the Shore-based UWSS System.	
SOWP-1189	5.2.3.1.3 The Contractor must liaise with Canada's CMS 330 ISS Contractor in order to finalize the definition, design, implementation, and testing for the Shore-based UWSS System.	Mandatory
SOWP-1190	5.2.3.2 Shore-based UWSS System Interface Design Documentation	Heading
SOWP-1191	5.2.3.2.1 The Contractor must prepare, maintain, update, and deliver the Shore-based UWSS System Interface Design documentation in accordance to CDRL-011, Interface Design Document, and UWSU-DID-SE-004, Interface Design Document.	Mandatory
SOWP-1192	5.2.3.2.2 The Contractor must maintain the Shore-based UWSS System Interface Design documentation to reflect all Shore-based UWSS System Interface changes authorized by Canada in accordance with Section 6 of this SOW.	Mandatory
SOWP-1193	5.2.3.2.3 The Contractor must update the Shore-based UWSS System Interface Design documentation to reflect modifications required resulting from design, implementation, test, integration, and test and trials activities.	Mandatory
SOWP-1194	5.2.3.2.4 The Contractor must update the Shore-based UWSS System Interface Design documentation to reflect comments provided by Canada and Canada's CMS 330 ISS Contractor as part of finalization processes.	Mandatory
SOWP-1195	5.2.3.3 Shore-based UWSS System Integration	Heading
SOWP-1196	5.2.3.3.1 The Contractor must perform Shore-based UWSS System integration testing activities with Canada's Combat Systems Test Facilities at the Combat Systems Support Centre – East (CSSC(E)).	Mandatory
SOWP-1197	5.2.3.3.2 Canada's CMS 330 ISS Contractor will provide Combat Systems synthetic environment technical engineering information and support for the Shore-based UWSS System integration testing activities.	Information
SOWP-1198	5.2.3.3.3 The Contractor must conduct Shore-based UWSS System integration testing activities at the Combat Systems Test Facilities using a combination of existing CMS 330 equipment, modified CMS 330 equipment, and Shore-based UWSS System equipment delivered to CSSC(E).	Mandatory
SOWP-1199	5.2.3.4 Support for CMS 330 ISS Contractor Interface Development and Integration Activities for Shore-based UWSS System	Heading

ID		Requirement Type
SOWP-1200	5.2.3.4.1 The Contractor must provide the Shore-based UWSS System technical engineering information and support to Canada's CMS 330 ISS Contractor in support of the CMS 330 ISS engineering activities to design, implement, test, and integrate the Shore-based UWSS System Interface to the Combat Systems synthetic environment, as part of the overall UWSU System Engineering work prescribed under the UWSU SOW.	Mandatory
SOWP-1201	5.2.3.4.2 The Contractor must attend, support, and participate in the CMS 330 ISS Integration engineering reviews and activities for the Shore-based UWSS System Interface to the Combat Systems synthetic environment.	Mandatory
SOWP-1202	5.2.3.4.3 The Contractor must review and provide comments to CMS 330 ISS Integration engineering documentation for the Shore-based UWSS System Interface to the Combat Systems synthetic environment.	Mandatory
SOWP-1203	5.2.3.5 Removal of Underwater Warfare Equipment from Combat Systems at CSSC(E)	Heading
SOWP-1204	5.2.3.5.1 The Contractor must remove the Underwater Warfare systems that are being replaced by the Shore-based UWSS System from the Combat Systems at the CSSC(E), prior to delivery of the Shore-based UWSS System equipment in accordance to Section 5.7, Deliver, Installation and Set to Work of Shore Systems.	Mandatory
SOWP-1205	5.2.3.5.2 The Contractor must return the removed Underwater Warfare systems to the Canada Forces Supply System.	Mandatory
SOWP-1207	5.2.4 Hydrodynamic Modelling of Towed Systems	Heading
SOWP-1208	5.2.4.1 The Contractor must conduct Hydrodynamic Modelling of the towed systems proposed by the Contractor in response to the SRD requirements in accordance with the System Design Document DID (CDRL-010 and UWSU-DID-SE-003).	Mandatory
SOWP-1213	5.2.4.2 The Contractor must conduct Hydrodynamic Modelling of the towed systems to verify compliance with the approved System Specifications Document (CDRL-009, UWSU-DID-SE-002).	Mandatory
SOWP-1209	5.2.4.3 The Contractor must conduct Hydrodynamic Modelling of the towed systems to assess the risk of physical interaction with the AN/SLQ-25A Towed Torpedo Countermeasure (TTCM) and the Halifax-class stern flap, and to develop and assess possible remedial or mitigation measures if necessary.	Mandatory
SOWP-1214	5.2.4.4 The Contractor must conduct Hydrodynamic Modelling of the towed systems to support the Test Readiness Reviews as specified in this SOW and in accordance with the Acceptance Test Procedures DID	Mandatory

ID		Requirement Type
	(CDRL-017 and UWSU-DID-SE-010).	
SOWP-1216	5.2.5 Fourth Operator Workstation	Heading
SOWP-1217	5.2.5.1 Fourth Operator Workstation Development	Heading
SOWP-1218	5.2.5.1.1 The Contractor must design, implement, and test the fourth operator workstation by re-using the existing 3-EYE Multi-Function Workstation (MFW) for the SPS, utilizing the left and center consoles for all UWSS display and control functionality, in order to meet requirements of the SOW and the SRD.	Mandatory
SOWP-1219	5.2.5.1.2 Canada will create a CMS 330 ISS tasking from which the CMS 330 ISS Contractor will provide 3-EYE MFW technical engineering information and support for assisting with finalization of design, implementation, and testing of the fourth operator workstation.	Information
SOWP-1220	5.2.5.1.3 The Contractor must liaise with Canada's CMS 330 ISS Contractor in order to finalize the design, implementation, and testing for the fourth operator workstation.	Mandatory
SOWP-1221	5.2.5.2 Fourth Operator Workstation Interface Design Documentation	Heading
SOWP-1222	5.2.5.2.1 The Contractor must prepare, maintain, update, and deliver the fourth operator workstation Interface Design documentation in accordance to CDRL-011, Interface Design Document, and UWSU-DID-SE-004, Interface Design Document.	Mandatory
SOWP-1223	5.2.5.2.2 The Contractor must maintain the fourth operator workstation Interface Design documentation to reflect all fourth operator workstation Interface changes authorized by Canada in accordance with Section 6 of this SOW.	Mandatory
SOWP-1224	5.2.5.2.3 The Contractor must update the fourth operator workstation Interface Design documentation to reflect modifications required resulting from design, implementation, test, integration, and test and trials activities.	Mandatory
SOWP-1225	5.2.5.2.4 The Contractor must update the fourth operator workstation Interface Design documentation to reflect comments provided by Canada and Canada's CMS 330 ISS Contractor as part of finalization processes.	Mandatory
SOWP-1226	5.2.5.3 Fourth Operator Workstation Integration	Heading
SOWP-1227	5.2.5.3.1 The Contractor must perform fourth operator workstation integration testing activities with Canada's Combat Systems Test Facilities at the CSSC(E).	Mandatory
SOWP-	5.2.5.3.2 Canada's CMS 330 ISS Contractor will provide 3-EYE MFW	Information

ID		Requirement Type
1228	technical engineering information and support for the fourth operator workstation integration testing activities.	
SOWP-1229	5.2.5.3.3 The Contractor must conduct fourth operator workstation integration testing activities at the Combat Systems Test Facilities using a combination of existing CMS 330 equipment, modified CMS 330 equipment, and UWSS equipment delivered to CSSC(E).	Mandatory
SOWP-1230	5.2.5.4 Support for CMS 330 ISS Contractor Interface Development and Integration Activities for Fourth Operator Workstation	Heading
SOWP-1231	5.2.5.4.1 The Contractor must provide the UWSS technical engineering information and support to Canada's CMS 330 ISS Contractor in support of the CMS 330 ISS engineering activities to design, implement, test, and integrate the fourth operator workstation, as part of the overall UWSU System Engineering work prescribed under the UWSU SOW.	Mandatory
SOWP-1232	5.2.5.4.2 The Contractor must attend, support, and participate in the CMS 330 ISS Integration engineering reviews and activities.	Mandatory
SOWP-1233	5.2.5.4.3 The Contractor must review and provide comments to CMS 330 ISS Integration engineering documentation.	Mandatory
SOWP-1251	5.2.6 UWSS to Underwater Telephone Interface	Heading
SOWP-1252	5.2.6.1 Interface Development	Heading
SOWP-1253	5.2.6.1.1 The Contractor must design, implement, and test the UWSS to Underwater Telephone interface in order to meet the requirements of the SOW and the SRD.	Mandatory
SOWP-1254	5.2.6.1.2 Canada will create an Underwater Telephone tasking from which Canada's Underwater Telephone technical authority will provide the Underwater Telephone technical engineering information and support for assisting with finalization of design, implementation, and testing of the UWSS to Underwater Telephone Interface.	Information
SOWP-1255	5.2.6.1.3 The Contractor must liaise with Canada's Underwater Telephone technical authority in order to finalize the design, implementation, and testing for the UWSS to Underwater Telephone Interface.	Mandatory
SOWP-1256	5.2.6.2 Interface Design Documentation	Heading
SOWP-1257	5.2.6.2.1 The Contractor must prepare, maintain, update, and deliver the UWSS to Underwater Telephone Interface Design documentation in accordance to CDRL-011, Interface Design Document, and UWSU-DID-SE-004, Interface Design Document.	Mandatory
SOWP-	5.2.6.2.2 The Contractor must maintain the UWSS to Underwater	Mandatory

ID		Requirement Type
1258	Telephone Interface Design documentation to reflect all UWSS to Underwater Telephone Interface changes authorized by Canada in accordance with Section 6 of this SOW.	
SOWP-1259	5.2.6.2.3 The Contractor must update the UWSS to Underwater Telephone Interface Design documentation to reflect modifications required resulting from design, implementation, test, integration, and test and trials activities.	Mandatory
SOWP-1260	5.2.6.2.4 The Contractor must update the UWSS to Underwater Telephone Interface Design documentation to reflect comments provided by Canada as part of finalization processes.	Mandatory
SOWP-1261	5.2.6.3 UWSS/Underwater Telephone Integration	Heading
SOWP-1262	5.2.6.3.1 The Contractor must perform UWSS/Underwater Telephone integration testing activities with Canada's Combat Systems Test Facilities at the CSSC(E).	Mandatory
SOWP-1263	5.2.6.3.2 Canada's Underwater Telephone technical authority will provide Underwater Telephone technical engineering information and support for the UWSS/Underwater Telephone integration testing activities.	Information
SOWP-1264	5.2.6.3.3 The Contractor must conduct UWSS/Underwater Telephone integration testing activities with the Combat Systems Test Facilities using a combination of existing Underwater Telephone equipment and UWSS equipment delivered to CSSC(E).	Mandatory
SOWP-1265	5.2.6.3.4 The First Article FAT for the entire UWSS must be successfully completed before proceeding to UWSS/Underwater Telephone integration testing at CSSC(E).	Mandatory
SOWP-1266	5.2.6.3.5 The prescribed for UWSS/Underwater Telephone integration testing at CSSC(E) must be successfully completed before proceeding to First Article HAT.	Mandatory
SOWP-454	5.3 Specialty Engineering Requirements	Heading
SOWP-455	5.3.1 Reliability, Maintainability and Testability Engineering	Heading
SOWP-456	5.3.1.1 The Contractor must conduct Reliability, Maintainability and Testability (RMT) Engineering on each element of the UWSS that are modified or developed under this Contract in order to ensure and demonstrate adherence to the standards of RMT.	Mandatory
SOWP-457	5.3.2 Safety Engineering	Heading
SOWP-458	5.3.2.1 The Contractor must establish a system safety program in accordance with Task 100 of MIL-STD-882E.	Mandatory

ID		Requirement Type
SOWP-459	5.3.2.2 The Contractor must prepare and deliver a Safety Control Plan in accordance with CDRL-021 and UWSU-DID-SE-014 by tailoring and selectively applying Task 101 of MIL-STD-882E.	Mandatory
SOWP-528	5.3.2.3 The Contractor must prepare, deliver, and maintain a Controlled Material Report to Canada in accordance with CDRL-023 and UWSU-DID-SE-016 if Controlled Materials are used in the UWSS, as defined by the Health Canada Reference Manual for WHMIS Requirements of the Hazardous Products Act and Controlled Product Regulations and A-GG-040-004/AG-001, General Safety Program - Hazardous Material Safety and Management Manual.	Mandatory
SOWP-462	5.3.2.4 The Contractor must deliver Material Safety Data Sheets (MSDSs) for every item of material in the UWSS that is deemed hazardous by the Canadian Hazardous Products Act, in accordance with CDRL-045 and UWSU-DID-TD-002.	Mandatory
SOWP-529	5.3.2.5 The Contractor must not use Controlled Materials in the UWSS and associated deliverables without authorization of the Controlled Material Report by Canada.	Mandatory
SOWP-530	5.3.2.6 The Contractor must evaluate all aspects of the UWSS and all ancillary system safety in accordance with the Safety Control Plan to identify and resolve all safety hazards until installation of the final UWSS.	Mandatory
SOWP-531	5.3.2.7 The Contractor must incorporate the safety requirements for Canadian shipyards, DND dockyards, and corresponding shore facilities in accordance with the Safety Control Plan where Work will be conducted until conclusion of the HAT for the final UWSS.	Mandatory
SOWP-532	5.3.2.8 The Contractor must prepare, deliver, and maintain a Safety Compliance Assessment in accordance with CDRL-022 and UWSU-DID-SE-015, for authorization by Canada.	Mandatory
SOWP-533	5.3.2.9 The Contractor must prepare, deliver, and maintain UWSS equipment safety labels for each hazard identified in the Safety Control Plan in accordance with D-02-002-001/SG-001, Identification Marking of Canadian Military Property, CDRL-036 and UWSU-DID-CM-005 for authorization by Canada.	Mandatory
SOWP-534	5.3.2.10 The Contractor must not install the UWSS equipment and other deliverables without authorization of the Safety Compliance Assessment by Canada, and authorization of equipment safety labels by Canada.	Mandatory
SOWP-669	5.3.3 Human Factors Engineering	Heading
SOWP-670	5.3.3.1 The Contractor must establish, deliver and implement a plan for Human Factors Engineering as part of the SEMP.	Mandatory

ID		Requirement Type
SOWP-671	5.3.3.2 The Human Factors Engineering Plan must establish the means by which the basis for the Human Factors components of the System Design Document are determined.	Mandatory
SOWP-1071	5.3.3.3 The Human Factors Engineering Plan must include an iterative approach with operator and maintainer consultations to the design of the Human Machine Interface, including the design and configuration of spaces and equipment.	Mandatory
SOWP-460	5.3.4 Electromagnetic Compatibility Engineering	Heading
SOWP-461	5.3.4.1 The Contractor must establish and deliver a plan for Electromagnetic Compatibility by tailoring and selectively applying MIL-STD-461F.	Mandatory
SOWP-681	5.3.5 System Security Engineering	Heading
SOWP-1058	5.3.5.1 General Requirements	Heading
SOWP-741	5.3.5.1.1 The Contractor must establish a System Security Engineering Program as part of the Systems Engineering Program using guidelines specified in Communications Security Establishment Canada (CSEC) Information Technology Security Guidance (ITSG) -33, Information Technology (IT) Security Risk Management: A Lifecycle Approach.	Mandatory
SOWP-796	5.3.5.1.2 An objective for Security Engineering is to ensure that the continuity of Royal Canadian Navy missions is maintained in the presence of security incidents, disruptions and emergencies that may occur.	Information
SOWP-906	5.3.5.1.3 The Contractor must prepare, maintain and deliver a System Security Engineering Management Plan as part of the SEMP in accordance with CDRL-008 and UWSU-DID-SE-001.	Mandatory
SOWP-787	5.3.5.1.4 The Contractor must implement the System Design Life Cycle in a manner consistent with the Information System Security Implementation Process (ISSIP) specified in CSEC ITSG-33 Annex 2, Information System Security Risk Management Activities.	Mandatory
SOWP-791	5.3.5.1.5 The Contractor must provide support to Canada for efforts to satisfy the Security Assessment & Authorization Process using guidelines specified in the Security Assessment and Authorization Guideline (SAAG).	Mandatory
SOWP-793	5.3.5.1.6 The Contractor must apply the National Defence Security Orders and Directives (NDSOD) and DAOD 2006-0, Defence Security to the implementation of the asset protection.	Mandatory
SOWP-798	5.3.5.1.7 The Contractor must establish a governance structure that provides effective and integrated security risk management.	Mandatory

ID		Requirement Type
SOWP-799	5.3.5.1.8 The Contractor must implement security as an integral component all of the Work.	Mandatory
SOWP-800	5.3.5.1.9 The Contractor must adopt and amend security measures and implement those changes in the day-to-day operations in response to applicable security arrangements, partnerships and alliances.	Mandatory
SOWP-1074	5.3.5.1.10 The Contractor must implement security solutions, as approved by Canada, to meet the security outcome requirements listed in UWSU System Security Requirements, Volume 2 Annex C Appendix 3, in conjunction with other security requirements from the SOW and SRD.	Mandatory
SOWP-1114	5.3.5.1.11 The Contractor must tailor the security outcome requirements listed in UWSU System Security Requirements, Volume 2 Annex C Appendix 3, in conjunction with Canada and as approved by Canada during Implementation Phase in the Security Working Group.	Mandatory
SOWP-794	5.3.5.1.12 The Contractor must protect assets, including technology, components and information, from compromise by implementing security solutions, as approved by Canada, that mitigate risks posed by threats and vulnerabilities, and by meeting the security requirements and the security outcome requirements from the SOW, SRD, and UWSU System Security Requirements, Volume 2 Annex C Appendix 3.	Mandatory
SOWP-1057	5.3.5.1.13 The Contractor must procure and manufacture, integrate, test and deliver software and hardware as required to satisfy the requirements of the SOW, SRD, and all of the security outcome requirements listed in UWSU System Security Requirements, Volume 2 Annex C Appendix 3.	Mandatory
SOWP-1060	5.3.5.1.14 Security assurance level of three has been determined applicable for the UWSS as defined in System Chapter 8 of ITSG-33 Annex 2, Information System Security Risk Management Activities.	Information
SOWP-1061	5.3.5.1.15 As part of the design and engineering process for the UWSS, the Contractor must provide objective evidence of the security assurance level three of the design and build process as described in Chapter 8 of ITSG-33 Annex 2, Information System Security Risk Management Activities.	Mandatory
SOWP-792	5.3.5.1.16 The Contractor must protect assets by implementing security solutions, as agreed to by Canada, from CSEC ITSG-33 Annex 3A, Security Controls Catalogue, December 2014, for each security outcome requirement in each Subcategory that are listed in the UWSU System Security Requirements, and derived requirements	Mandatory

ID		Requirement Type
	from the system architecture design process, as tailored in conjunction with Canada and as approved by Canada during Implementation Phase in the Security Working Group.	
SOWP-750	5.3.5.2 System Security Plan (SSP)	Heading
SOWP-756	5.3.5.2.1 The Contractor must prepare, maintain, deliver and implement a System Security Plan (SSP) in accordance with CDRL-026 and UWSU-DID-SE-019, consistent with the National Institute of Standards and Technology (NIST) Special Publication (SP) 800-18, Guide for Developing Security Plans for Federal Information Systems.	Mandatory
SOWP-751	5.3.5.2.2 The SSP must demonstrate that the Contractor has an understanding of the functional operation of the UWSS, its criticality to RCN Halifax-class mission capability, and how the Contractor intends to satisfy the security outcome requirements that are listed in the System Security Requirements, Volume 2 Annex C Appendix 3.	Mandatory
SOWP-752	5.3.5.2.3 The SSP must satisfy the Management Security Control PL-2, System Security Plan of the ITSG-33 Annex 3A, Security Control Catalogue.	Mandatory
SOWP-754	5.3.5.2.4 The Contractor must update the SSP as risk mitigations are incorporated into the design.	Mandatory
SOWP-779	5.3.5.3 Security Working Group	Heading
SOWP-780	5.3.5.3.1 The objective of the Security Working Group (SWG) is the support and efficient functioning of the Information Technology Security Risk Management Framework.	Information
SOWP-781	5.3.5.3.2 The intent of the meetings is to create a forum for discussion of the allocation of security functions, acceptable risk and the allocation of security controls within the UWSS System design to satisfy security risk management and security related requirements.	Information
SOWP-782	5.3.5.3.3 The Contractor must schedule, plan, organize and host SWG meetings at a minimum of once every three months, or upon request by Canada.	Mandatory
SOWP-783	5.3.5.3.4 Canada will chair the SWG.	Information
SOWP-784	5.3.5.3.5 The Contractor must prepare and deliver the Meeting Agenda for each SWG in accordance with the requirements of CDRL-003 and UWSU-DID-PM-003.	Mandatory
SOWP-785	5.3.5.3.6 The Contractor must record, prepare and deliver the minutes of each SWG in accordance with the requirements of CDRL-005 and UWSU-DID-PM-005.	Mandatory
SOWP-	5.3.5.4 Security Risk Management Activities	Heading

ID		Requirement Type
804		
SOWP-805	5.3.5.4.1 The Contractor must implement a security risk management process.	Mandatory
SOWP-806	5.3.5.4.2 The Contractor must conduct the following security risk management activities:	Mandatory
SOWP-870	(a) Critical Program Information Identification and Criticality Analysis;	Mandatory
SOWP-871	(b) Threat Analysis;	Mandatory
SOWP-872	(c) Vulnerability Assessment;	Mandatory
SOWP-873	(d) Risk Assessment; and	Mandatory
SOWP-874	(e) Countermeasure Implementation.	Mandatory
SOWP-808	5.3.5.5 Critical Program Information and Mission-Critical Functions and Components	Heading
SOWP-809	5.3.5.5.1 Critical Program Information and mission-critical functions and components are the UWSS technology, components and information that provide mission essential capabilities.	Information
SOWP-812	5.3.5.5.2 Critical Program Information	Heading
SOWP-813	5.3.5.5.2.1 Critical Program Information (CPI) are elements or components of a research development and acquisition program that, if compromised, could cause significant degradation in mission effectiveness; shorten the expected combat-effective life of the system; reduce technological advantage; significantly alter program direction; or enable an adversary to defeat, counter, copy, or reverse engineer the technology or capability.	Information
SOWP-814	5.3.5.5.2.2 The Contractor must establish processes necessary for safeguarding UWSS CPI to prevent unauthorized or inadvertent disclosure, destruction, transfer, alteration, reverse engineering, or loss.	Mandatory
SOWP-815	5.3.5.5.2.3 The Contractor must protect the following UWSS CPI:	Mandatory
SOWP-875	(a) Information about applications, capabilities, processes, and end-items;	Mandatory
SOWP-876	(b) Elements or components critical to a military system or network mission effectiveness;	Mandatory
SOWP-877	(c) Technology that would reduce Canadian, Allied and NATO technological advantage if it came under foreign	Mandatory

ID		Requirement Type
	control;	
SOWP-878	(d) Classified military information which is considered a national security asset that will be protected;	Mandatory
SOWP-879	(e) Intellectual Property;	Mandatory
SOWP-880	(f) Design information;	Mandatory
SOWP-881	(g) Controlled Goods information; and	Mandatory
SOWP-882	(h) Commercial-off-the-shelf (COTS) technology that fulfill a critical function within the system.	Mandatory
SOWP-810	5.3.5.5.3 Mission-Critical Functions and Components	Heading
SOWP-816	5.3.5.5.3.1 Mission-critical functions are those functions of the system if corrupted or disabled, would likely lead to mission failure or degradation. Mission-critical components are primarily the elements of the system (hardware, software, and firmware) that implement critical functions. In addition, the system components that implement protections of those inherently critical components, and other components with unmediated access to those inherently critical components, may themselves be mission critical.	Information
SOWP-817	5.3.5.5.3.2 The Contractor must plan and implement the following protection program for mission-critical UWSS functions and components:	Mandatory
SOWP-883	(a) Trade-space considerations (including cost/benefit analyses);	Mandatory
SOWP-884	(b) Resource allocations (staffing and budget);	Mandatory
SOWP-885	(c) Countermeasures planning and implementation;	Mandatory
SOWP-886	(d) Adjustment of countermeasures, as appropriate, for variations in the planned use or environment of inherited critical components;	Mandatory
SOWP-887	(e) Summary of consequences if compromised; and	Mandatory
SOWP-888	(f) Residual risk identification after countermeasures are implemented, including follow-up mitigation plans and actions.	Mandatory
SOWP-858	5.3.5.5.3.3 The Contractor must develop a set of secure coding standards and secure design features consistent with the following guidelines to use with all mission-critical functions and components:	Mandatory

ID		Requirement Type
SOWP-891	(a) Software Engineering Institute (SEI) Computer Emergency Response Team (CERT) Top 10 Secure Coding Practices, Carnegie Mellon University, CERT Division;	Mandatory
SOWP-890	(b) Common Weakness Enumerations (CWE) / SysAdmin, Audit, Network, and Security (SANS) Top 25 Most Dangerous Software Errors, SANS Institute;	Mandatory
SOWP-889	(c) Secure Design Patterns, Carnegie Mellon University, Software Engineering Institute; and	Mandatory
SOWP-1239	(d) Use of a software code wrapper around pre-existing COTS, MOTS, and legacy software code, in accordance to Volume 2, Annex C, Section 4.3.2.2 (d) and Section 4.3.2.2 (e), in order to fulfill the intentions of Section 5.3.5.5.3.3 (a) through (c) without requiring full re-coding.	Mandatory
SOWP-846	5.3.5.6 Risk Assessment	Heading
SOWP-848	5.3.5.6.1 The Contractor must prepare, maintain and deliver the Security Risk Assessment in accordance with CDRL-024 and UWSU-DID-SE-017.	Mandatory
SOWP-847	5.3.5.6.2 The Contractor must develop, maintain and implement a security risk methodology that takes into consideration the criticality analysis, vulnerability assessment and supplier threat analysis. The probabilities of the identified risks must be provided in the security risk assessment.	Mandatory
SOWP-849	5.3.5.7 Countermeasure Implementation	Heading
SOWP-850	5.3.5.7.1 Countermeasures are cost-effective activities and attributes to manage risks to Critical Program Information and mission-critical functions and components.	Information
SOWP-851	5.3.5.7.2 The Contractor must develop and implement a countermeasure plan as part of the System Security Plan (SSP) (CDRL-026 and UWSU-DID-SE-019) showing how security risks as identified in the Security Risk Assessment for the UWSS will be mitigated and the mitigation level to be achieved.	Mandatory
SOWP-692	5.3.5.8 System Security Architecture	Heading
SOWP-745	5.3.5.8.1 System Security Architecture Design	Heading
SOWP-747	5.3.5.8.1.1 The Contractor must develop and implement a UWSS Security Architecture in accordance with CDRL-025 and UWSU-DID-SE-018 that satisfies the security outcome requirements of the SOW, SRD, and all of the security outcome requirements in UWSU System	Mandatory

ID		Requirement Type
	Security Requirements, Volume 2 Annex C Appendix 3.	
SOWP-856	5.3.5.8.1.2 The Contractor must develop and implement a UWSS Security Architecture that integrates with the ship security and the ship information system architectures.	Mandatory
SOWP-748	5.3.5.8.1.3 The Contractor must use a System Security Engineering process such as that described in National Institute of Standards and Technology (NIST) Special Publication (SP) 800-160, Systems Security Engineering: An Integrated Approach to Building Trustworthy Resilient Systems.	Mandatory
SOWP-973	5.3.5.8.1.4 The Contractor must assess and evaluate the Security Architecture against the threats scenarios provided by Canada.	Mandatory
SOWP-974	5.3.5.8.1.5 The Contractor must provide objective evidence that the Security Architecture provides an acceptable level of risk management for the UWSS.	Mandatory
SOWP-764	5.3.5.8.2 Security Concept of Operations (CONOPS)	Heading
SOWP-765	5.3.5.8.2.1 The Security Concept of Operations is a description of the system security elements, the security policies, classes of users, interactions with non-security system elements and the security systems contribution to mission capability.	Information
SOWP-766	5.3.5.8.2.2 The Security CONOPS describes how the security of the system will be operated when the system is in operations in order to maintain the Authorization To Operate (ATO) satisfying the security requirements.	Information
SOWP-767	5.3.5.8.2.3 The Security CONOPS is consistent and tightly integrated with the System Concept of Operations.	Information
SOWP-771	5.3.5.8.2.4 The Contractor must prepare, maintain and deliver the Security CONOPS in accordance with CDRL-027 and UWSU-DID-SE-020.	Mandatory
SOWP-769	5.3.5.8.2.5 The Contractor must allocate system security functions to authorized operators, maintainers, administrators and other defined designated authorized users.	Mandatory
SOWP-770	5.3.5.8.2.6 The Contractor must allocate security functionality to personnel, physical security and technology.	Mandatory
SOWP-1063	5.3.5.8.3 Security Assurance Requirements Document	Heading
SOWP-760	5.3.5.8.3.1 The Contractor must prepare, maintain and deliver the evidence for Security Assurance Requirements in accordance with CDRL-031 and UWSU-DID-SE-024.	Mandatory
SOWP-761	5.3.5.8.3.2 The Contractor must include entries for the Contractor and for each sub-contractor in CDRL-031 and UWSU-DID-SE-024.	Mandatory

ID		Requirement Type
SOWP-762	5.3.5.8.3.3 During the design and build of the UWSS, Canada may choose to audit and verify the objective evidence supplied by the Contractor or sub-contractors.	Information
SOWP-763	5.3.5.8.3.4 The Contractor must provide information in support of Canada's audit and verification activities of Contractor and sub-contractor objective evidence.	Mandatory
SOWP-712	5.3.5.9 Security Requirements Traceability Matrix (SRTM)	Heading
SOWP-739	5.3.5.9.1 The Contractor must prepare, maintain and deliver a Security Requirements Traceability Matrix (SRTM) in accordance with CDRL-028 and UWSU-DID-SE-021 to cover all security requirements from the SOW, SRD, and all of the security outcome requirements in UWSU System Security Requirements, Volume 2 Annex C Appendix 3.	Mandatory
SOWP-723	5.3.5.9.2 The Contractor must develop, implement and use the SRTM throughout the UWSS design and development processes, and when developing test cases.	Mandatory
SOWP-777	5.3.5.9.3 The SRTM must demonstrate how the implementation of security controls (Tailored Security Control Profile provided as GFI) in the design meets the security requirements and all other derived security requirements resulting from the architecture design process.	Mandatory
SOWP-724	5.3.5.9.4 The SRTM must include the linkages between security controls, security mechanisms, security solutions and the threats that they counter.	Mandatory
SOWP-711	5.3.5.10 Security Plan of Actions and Milestones (POAM)	Heading
SOWP-726	5.3.5.10.1 The Contractor must prepare, maintain and deliver a Security Plan of Actions and Milestones (POAM) in accordance with CDRL-029 and UWSU-DID-SE-022.	Mandatory
SOWP-729	5.3.5.10.2 The Security POAM will provide the method by which identified changes to the system will be made in order to address unacceptable risks and the information required.	Information
SOWP-730	5.3.5.10.3 The Security POAM will be reviewed with Canada at the Security Working Group in which the Contractor proposed response action plan will be discussed and the agreed way-ahead will be determined.	Information
SOWP-725	5.3.5.10.4 During the design and build phases of the project, the Contractor must identify, assess, manage and plan the security risks.	Mandatory
SOWP-731	5.3.5.10.5 The Contractor must provide response actions plans that will remediate the risks to an acceptable level, as directed by Canada.	Mandatory
SOWP-689	5.3.5.11 Security Test and Evaluation (ST&E) Plan	Heading

ID		Requirement Type
SOWP-738	5.3.5.11.1 The Contractor must prepare, maintain and deliver a Security Test and Evaluation (ST&E) Plan in accordance with CDRL-030 and UWSU-DID-SE-023 to cover all security requirements from the SOW, SRD and all of the security outcome requirements in UWSU System Security Requirements, Volume 2 Annex C Appendix 3.	Mandatory
SOWP-727	5.3.5.11.2 The Contractor must develop and implement the ST&E Plan using guidelines from NIST SP 800-53A Revision 4, Assessing Security and Privacy Controls in Federal Information Systems and Organizations: Building Effective Assessment Plans.	Mandatory
SOWP-728	5.3.5.11.3 The ST&E Plan must describe the verification and validation required to assess the controls, mechanisms and solutions in each system that support the security risk management framework.	Mandatory
SOWP-474	5.4 Requirements Management and System Specifications Development	Heading
SOWP-175	5.4.1 The Contractor must prepare and implement a Requirements Management Plan as part of the SEMP that details the processes and tools used for requirements management and traceability.	Mandatory
SOWP-475	5.4.2 The Contractor must convene one System Requirements Review (SRR) with Canada to coincide with the Contract Kick-Off meeting, in order to ensure that each SRD requirement has been clarified and reconciled to a common understanding between the Contractor and Canada, so that the Contractor can generate the Functional Baseline.	Mandatory
SOWP-1240	5.4.3 The Contractor must prepare and deliver the Meeting Agenda for the SRR and record and deliver SRR minutes in accordance with the requirements of CDRL-003, UWSU-DID-PM-003, CDRL-005 and UWSU-DID-PM-005 respectively.	Mandatory
SOWP-476	5.4.4 The Contractor must prepare and deliver a draft System Specifications Document (SSD) in accordance with CDRL-009 and UWSU-DID-SE-002 for discussion at the SRR, and subsequently must incorporate all observations made by Canada, and mutually agreed with the Contractor, into the final SSD that will define the functional baseline for the system, upon authorization by Canada.	Mandatory
SOWP-177	5.4.5 The Contractor's SSD must define the system architecture and the physical and functional performance at the system and sub-system levels, and all the functional and physical interface requirements between system modules and external interfaces.	Mandatory
SOWP-182	5.4.6 The SSD must describe how the solution achieves the physical and functional performance requirements of the system.	Mandatory
SOWP-183	5.4.7 If a System Element is COTS, the supplier's documentation (if it details the physical and functional performance of a product) will be sufficient and must be provided in supplier's format.	Mandatory

ID		Requirement Type
SOWP-485	5.4.8 The Contractor must design the UWSS in accordance with the SSD following authorization of the SSD and SRR Minutes by Canada.	Mandatory
SOWP-30	5.5 Preliminary and Critical Design Reviews	Heading
SOWP-31	5.5.1 Design Review Standard	Heading
SOWP-192	5.5.1.1 Design Reviews must comply with the intent of SMC-S-021.	Mandatory
SOWP-1059	5.5.1.2 SMC-S-021 must guide the items to be presented and the documentation required for Design Reviews.	Mandatory
SOWP-194	5.5.1.3 All design reviews must take place at Contractor facilities unless arranged otherwise.	Mandatory
SOWP-195	5.5.1.4 The Contractor must propose the schedule of Design Reviews during submission of the Contract's Project Master Schedule for approval by the TA.	Mandatory
SOWP-488	5.5.2 Preliminary Design Review	Heading
SOWP-490	5.5.2.1 The Contractor must convene a Preliminary Design Review (PDR) with Canada to explain and validate the design of the proposed UWSS with respect to this SOW and the SRD.	Mandatory
SOWP-1241	5.5.2.2 The Contractor must prepare and deliver the Meeting Agenda for the PDR and record and deliver PDR minutes in accordance with the requirements of CDRL-003, UWSU-DID-PM-003, CDRL-005 and UWSU-DID-PM-005 respectively.	Mandatory
SOWP-491	5.5.2.3 To prepare for the PDR, the Contractor must prepare and deliver the following components of the draft PDR Documentation Package:	Mandatory
SOWP-492	(a) the System Specifications Document in accordance with CDRL-009 and UWSU-DID-SE-002;	Mandatory
SOWP-493	(b) the draft Verification Cross Reference Matrix in accordance with CDRL-012 and UWSU-DID-SE-005;	Mandatory
SOWP-494	(c) the draft System Design Document in accordance with CDRL-010 and UWSU-DID-SE-003;	Mandatory
SOWP-495	(d) the draft Interface Design Document in accordance with CDRL-011 and UWSU-DID-SE-004;	Mandatory
SOWP-496	(e) the draft Safety Control Plan in accordance with CDRL-021 and UWSU-DID-SE-014;	Mandatory
SOWP-523	(f) the draft Controlled Material Report in accordance with CDRL-023 and UWSU-DID-SE-016;	Mandatory
SOWP-863	(g) the draft Security Risk Assessment in accordance with CDRL-024 and UWSU-DID-SE-017;	Mandatory

ID		Requirement Type
SOWP-864	(h) the draft Security Architecture Design Document in accordance with CDRL-025 and UWSU-DID-SE-018;	Mandatory
SOWP-865	(i) the draft System Security Plan in accordance with CDRL-026 and UWSU-DID-SE-019;	Mandatory
SOWP-940	(j) the draft Security Concept of Operations in accordance with CDRL-027 and UWSU-DID-SE-020;	Mandatory
SOWP-942	(k) the draft Security Requirements Traceability Matrix in accordance with CDRL-028 and UWSU-DID-SE-021;	Mandatory
SOWP-945	(l) the draft Security Assurance Requirements in accordance with CDRL-031 and UWSU-DID-SE-024;	Mandatory
SOWP-497	(m) the Request for Government Furnished Resources in accordance with CDRL-007 and UWSU-DID-PM-007;	Mandatory
SOWP-1126	(n) the draft Engineering Change Guidance Package in accordance with CDRL-046 and UWSU-DID-TD-003;	Mandatory
SOWP-1317	(o) the draft Test and Evaluation Master Plan in accordance with CDRL-016 and UWSU-DID-SE-009;	Mandatory
SOWP-1318	(p) the draft Security Plan of Actions and Milestones in accordance with CDRL-029 and UWSU-DID-SE-022; and	Mandatory
SOWP-1319	(q) the draft Security Test and Evaluation Plan in accordance with CDRL-030 and UWSU-DID-SE-023.	Mandatory
SOWP-510	5.5.2.4 The Contractor must incorporate all observations made by Canada, and mutually agreed with the Contractor, in the draft PDR Documentation Package.	Mandatory
SOWP-511	5.5.2.5 The Contractor must prepare and deliver a final PDR Documentation Package for authorization by Canada.	Mandatory
SOWP-512	5.5.2.6 The Contractor must develop the UWSS, following authorization of the final PDR Documentation Package and PDR Minutes by Canada in accordance with this SOW and the PDR Documentation Package.	Mandatory
SOWP-489	5.5.3 Critical Design Review	Heading
SOWP-513	5.5.3.1 The Contractor must convene a Critical Design Review (CDR) with Canada to explain and validate the design of the proposed UWSS with respect to this SOW and SRD.	Mandatory
SOWP-1242	5.5.3.2 The Contractor must prepare and deliver the Meeting Agenda for the CDR and record and deliver CDR minutes in accordance with the requirements of CDRL-003, UWSU-DID-PM-003, CDRL-005 and UWSU-DID-PM-005 respectively.	Mandatory
SOWP-514	5.5.3.3 The Contractor must prepare and deliver the following draft CDR Documentation Package:	Mandatory
SOWP-	(a) the System Specifications Document in accordance with	Mandatory

ID		Requirement Type
516	CDRL-009 and UWSU-DID-SE-002;	
SOWP-515	(b) the Verification Cross Reference Matrix in accordance with CDRL-012 and UWSU-DID-SE-005;	Mandatory
SOWP-517	(c) the System Design Document in accordance with CDRL-010 and UWSU-DID-SE-003;	Mandatory
SOWP-518	(d) the Interface Design Document in accordance with CDRL-011 and UWSU-DID-SE-004;	Mandatory
SOWP-519	(e) the Safety Control Plan in accordance with CDRL-021 and UWSU-DID-SE-014;	Mandatory
SOWP-527	(f) the Controlled Material Report in accordance with CDRL-023 and UWSU-DID-SE-016;	Mandatory
SOWP-866	(g) the Security Risk Assessment in accordance with CDRL-024 and UWSU-DID-SE-017;	Mandatory
SOWP-868	(h) the Security Architecture Design Document in accordance with CDRL-025 and UWSU-DID-SE-018;	Mandatory
SOWP-867	(i) the System Security Plan in accordance with CDRL-026 and UWSU-DID-SE-019	Mandatory
SOWP-941	(j) the Security Concept of Operations in accordance with CDRL-027 and UWSU-DID-SE-020;	Mandatory
SOWP-943	(k) the Security Requirements Traceability Matrix in accordance with CDRL-028 and UWSU-DID-SE-021;	Mandatory
SOWP-944	(l) the Security Test and Evaluation Plan in accordance with CDRL-030 and UWSU-DID-SE-023;	Mandatory
SOWP-946	(m) the Security Assurance Requirements in accordance with CDRL-031 and UWSU-DID-SE-024;	Mandatory
SOWP-520	(n) the Test and Evaluation Master Plan in accordance with CDRL-016 and UWSU-DID-SE-009;	Mandatory
SOWP-524	(o) every amendment to the Request for GFR in accordance with CDRL-007 and UWSU-DID-PM-007;	Mandatory
SOWP-525	(p) the Engineering Change Guidance Package in accordance with CDRL-046 and UWSU-DID-TD-003;	Mandatory
SOWP-522	(q) the Technical Data Package in accordance with CDRL-044 and UWSU-DID-TD-001;	Mandatory
SOWP-1269	(r) the Safety Compliance Assessment in accordance with CDRL-022 and UWSU-DID-SE-015;	Mandatory
SOWP-1270	(s) the Equipment Breakdown Structure in accordance with CDRL-033 and UWSU-DID-CM-002;	Mandatory
SOWP-1271	(t) the Equipment Labelling Package in accordance with CDRL-036 and UWSU-DID-CM-005;	Mandatory
SOWP-1272	(u) the Integrated Logistics Support Plan in accordance with CDRL-037 and UWSU-DID-ILS-001;	Mandatory

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SOWP-1273	(v) the Tools and Test Equipment List in accordance with CDRL-042 and UWSU-DID-ILS-006;	Mandatory
SOWP-1320	(w) the Security Plan of Actions and Milestones in accordance with CDRL-029 and UWSU-DID-SE-022;	Mandatory
SOWP-1321	(x) the Training and Training Support Plan in accordance with CDRL-039 and UWSU-DID-ILS-003; and	Mandatory
SOWP-1322	(y) the Transition Plan in accordance with CDRL-043 and UWSU-DID-ILS-007.	Mandatory
SOWP-536	5.5.3.4 The Contractor must incorporate all observations made by Canada, and mutually agreed with the Contractor, in the draft CDR Documentation Package.	Mandatory
SOWP-537	5.5.3.5 The Contractor must prepare and deliver a final CDR Documentation Package for authorization by Canada.	Mandatory
SOWP-538	5.5.3.6 The Contractor must perform ILS activities following authorization of the final CDR Documentation Package, in accordance with the Project Master Schedule, and in accordance with Section 7 of this SOW.	Mandatory
SOWP-32	5.6 Delivery, Installation and Set to Work (STW) of ship-board systems	Heading
SOWP-1012	5.6.1 The Contractor must design and produce the UWSS ship sets in accordance with the CDR Documentation Package.	Mandatory
SOWP-1073	5.6.2 The Contractor must prepare, maintain and deliver the Data Collection data structure definitions and parser source code/dynamic link libraries in accordance with CDRL-052 and UWSU-DID-TD-009.	Mandatory
SOWP-1014	5.6.3 Engineering Change Guidance Package	Heading
SOWP-1015	5.6.3.1 The Contractor must prepare, maintain, update, and deliver an Engineering Change Guidance Package (ECGP) in accordance with CDRL-046 and UWSU-DID-TD-003.	Mandatory
SOWP-1016	5.6.3.2 The Contractor must maintain the ECGP to reflect all UWSS changes authorized by Canada in accordance with Section 6 of this SOW.	Mandatory
SOWP-1017	5.6.3.3 The Contractor must amend the ECGP to reflect comments provided by Canada.	Mandatory
SOWP-1133	5.6.3.4 The Contractor must maintain the ECGP to reflect the information requested by the Engineering Change Working Group.	Mandatory
SOWP-1031	5.6.4 Engineering Change Specification Development	Heading
SOWP-1032	5.6.4.1 The objective of the Engineering Change Specification Development Working Group (EWG) is to support the development of the EC Specification generated from the Contractor-provided ECGP.	Information

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SOWP-1033	5.6.4.2 The intent of the meetings is to create a forum for the Contractor, Canada, Canada's Design Agent and Canada's East and West Coast Implementers to address the needs of the Engineering Change Guidance Package and discuss Engineering Change Specification development issues.	Information
SOWP-1034	5.6.4.3 Engineering Change Specification development issues will be reviewed and discussed by the Contractor, Canada, Canada's Design Agent and Canada's East and West Coast Implementers to determine the agreed way forward.	Information
SOWP-1035	5.6.4.4 The Contractor must schedule, plan, organize and host EWG meetings at a minimum of once every month, or upon request by Canada.	Mandatory
SOWP-1036	5.6.4.5 Canada will chair the EWG meetings.	Information
SOWP-1037	5.6.4.6 The Contractor must attend and participate at the EWG meetings.	Mandatory
SOWP-1038	5.6.4.7 The Contractor must review and provide comments for the UWSS EC Specification that Canada will provide to the Contractor as developed from the Contractor's ECGP.	Mandatory
SOWP-1134	5.6.4.8 The Contractor must provide to Canada the information for the UWSS requested by the Engineering Change Work Group.	Mandatory
SOWP-1039	5.6.4.9 The Contractor must prepare and deliver the Meeting Agenda for each EWG meeting in accordance with the requirements of CDRL-003 and UWSU-DID-PM-003.	Mandatory
SOWP-1040	5.6.4.10 The Contractor must record, prepare and deliver the minutes of each EWG meeting in accordance with the requirements of CDRL-005 and UWSU-DID-PM-005.	Mandatory
SOWP-1042	5.6.5 System Delivery	Heading
SOWP-1108	5.6.5.1 The UWSU Implementation Schedule in Volume 2 Annex B Appendix 3 is notional based on the current Royal Canadian Navy Fleet Plan for the Halifax-class frigates.	Information
SOWP-1109	5.6.5.2 The final UWSU Implementation must be discussed and agreed to between Canada and the Contractor during the Implementation phase.	Mandatory
SOWP-1043	5.6.5.3 The Contractor must deliver each UWSS and associated shore systems to the locations listed in Appendix 3 UWSU Implementation Schedule of this SOW in accordance with the authorized Project Master Schedule.	Mandatory
SOWP-1044	5.6.5.4 The Contractor must store each UWSS and associated shore systems until the shore facility is ready to install the system.	Mandatory

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SOWP-1046	5.6.6 System Installation	Heading
SOWP-1047	5.6.6.1 Canada will install each UWSS in each ship listed in Appendix 3 UWSU Implementation Schedule of this SOW, in accordance with the authorized UWSS Engineering Change Specification generated from the ECGP.	Information
SOWP-1049	5.6.6.2 For each ship installation, the Contractor must provide on-site installation support to Canada, Canada Design Agent and Canada's East and West Coast Implementers in accordance with this SOW.	Mandatory
SOWP-1051	5.6.7 System Set to Work	Heading
SOWP-1052	5.6.7.1 The Contractor must conduct and perform all STW activities as specified in the TEMP, CDRL-016 and UWSU-DID-SE-009 as authorized by Canada upon completion of each ship installation in order to verify the state of the UWSU material and equipment that has been installed, to verify that each UWSU System has been installed and connected correctly, is functioning correctly, is groomed, is configured, and is at an acceptable state of technical readiness for testing.	Mandatory
SOWP-1053	5.6.7.2 The Contractor must conduct and perform all STW activities in accordance with the safety requirements of the Safety Control Plan and Safety Compliance Assessment, CDRL-021, UWSU-DID-SE-014, CDRL-022 and UWSU-DID-SE-015 respectively.	Mandatory
SOWP-552	5.7 Delivery, Installation and Set to Work (STW) of shore systems	Heading
SOWP-553	5.7.1 The Contractor must design and produce the UWSS associated shore systems in accordance with the CDR Documentation Package.	Mandatory
SOWP-562	5.7.2 The Contractor must deliver each UWSS associated shore system to the locations listed in Appendix 3 UWSU Implementation Schedule of this SOW, in accordance with the authorized Project Master Schedule.	Mandatory
SOWP-563	5.7.3 The Contractor must store each UWSS associated shore system until the shore facility is ready to install the system.	Mandatory
SOWP-564	5.7.4 The Contractor must install each UWSS associated shore system as listed in Appendix 3 UWSU Implementation Schedule of this SOW, in accordance with the authorized Project Master Schedule.	Mandatory
SOWP-565	5.7.5 The Contractor must conduct and perform all STW activities for the UWSS associated shore systems as specified in the TEMP, CDRL-016 and UWSU-DID-SE-009 as authorized by Canada, in order to verify the state of the UWSU material and equipment that has been installed, to verify that each UWSU shore system has been installed	Mandatory

ID		Requirement Type
	and connected correctly, is functioning correctly, is groomed, is configured, and is at an acceptable state of technical readiness for testing.	
SOWP-566	5.7.6 The Contractor must conduct and perform all UWSS associated shore system installation and STW activities in accordance with the safety requirements of the Safety Control Plan and Safety Compliance Assessment, CDRL-021, UWSU-DID-SE-014, CDRL-022 and UWSU-DID-SE-015 respectively.	Mandatory
SOWP-36	5.8 Acceptance Process	Heading
SOWP-196	5.8.1 The Test and Evaluation Master Plan	Heading
SOWP-574	5.8.1.1 The Contractor must prepare, deliver, maintain and update the Test and Evaluation Master Plan (TEMP) in accordance with CDRL-016 and UWSU-DID-SE-009.	Mandatory
SOWP-572	5.8.1.2 The Contractor must include in the TEMP an Acceptance Test Index (ATI) in accordance with CDRL-016 and UWSU-DID-SE-009.	Mandatory
SOWP-197	5.8.1.3 The Contractor must conduct the tests and evaluations in accordance with the TEMP as authorized by Canada.	Mandatory
SOWP-198	5.8.1.4 The Contractor must prepare, deliver and maintain Acceptance Test Procedures in accordance with CDRL-017 and UWSU-DID-SE-010 to define the specific requirements for each test itemized in the ATI for authorization by Canada.	Mandatory
SOWP-576	5.8.2 Test Readiness Reviews	Heading
SOWP-201	5.8.2.1 The Contractor must convene a First Article Test Readiness Review (TRR) with Canada following First Article production, and prior to the First Article Factory Acceptance Test.	Mandatory
SOWP-202	5.8.2.2 The Contractor must convene a First Article Harbour Acceptance Test (HAT) Test Readiness Review (TRR) with Canada following First Article Set To Work, and prior to the First Article Harbour Acceptance Test.	Mandatory
SOWP-573	5.8.2.3 The Contractor must convene a First Article Sea Acceptance Test (SAT) Test Readiness Review (TRR) with Canada upon acceptance of HAT results by Canada, and prior to the First Article Sea Acceptance Test.	Mandatory
SOWP-1243	5.8.2.4 The Contractor must prepare and deliver Meeting Agendas for the TRRs and record and deliver TRR minutes in accordance with the requirements of CDRL-003, UWSU-DID-PM-003, CDRL-005 and UWSU-DID-PM-005 respectively.	Mandatory
SOWP-	5.8.2.5 The Contractor must provide the following to Canada at each	Mandatory

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203	TRR:	
SOWP-577	(a) demonstration that the required resources have been retained and scheduled for the applicable test;	Mandatory
SOWP-578	(b) a review of any modelling and past testing conducted on the test article, and a review of each known problem;	Mandatory
SOWP-579	(c) demonstration that all comments from Canada concerning the applicable ATPs have been resolved to the satisfaction of Canada, so as to enable final authorization of the ATPs by Canada;	Mandatory
SOWP-580	(d) a review of all conditions, constraints and procedures necessary for Canada to formally witness the applicable Factory Acceptance Test and Harbour Acceptance Test;	Mandatory
SOWP-581	(e) a review of all conditions, constraints and procedures necessary for Canada to conduct, and the Contractor to formally witness, the Sea Acceptance Test;	Mandatory
SOWP-582	(f) demonstration that all test articles are compliant with Product and Functional Baselines, including verification of all configuration changes authorized by Canada;	Mandatory
SOWP-583	(g) demonstration that all system components to be involved in the test have been Set To Work, and are at a state of technical readiness that enables demonstration of the required compliance; and	Mandatory
SOWP-584	(h) a review of all other issues that may impact the applicable test.	Mandatory
SOWP-585	5.8.2.6 The Contractor must commence FAT, HAT and SAT only upon authorization of the TRR results by Canada, or upon authorization of the TRR minutes by Canada in which resolution of each TRR observation is documented.	Mandatory
SOWP-38	5.8.3 Conduct of Acceptance Tests	Heading
SOWP-204	5.8.3.1 The Contractor must conduct Acceptance Testing in accordance with the TEMP and ATPs current at the time of scheduling the test, and in accordance with the outcome of the FAT, HAT and SAT TRRs.	Mandatory
SOWP-586	5.8.3.2 The Contractor must provide Test Notifications to Canada in accordance with CDRL-018 and UWSU-DID-SE-011.	Mandatory
SOWP-205	5.8.3.3 The Contractor must permit Canada and its representatives to witness all Acceptance Tests and must fully support Canada in this role at each Acceptance Test.	Mandatory
SOWP-206	5.8.3.4 The Contractor must formally witness all SATs conducted by Canada.	Mandatory

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SOWP-207	5.8.3.5 The Contractor must demonstrate to Canada during each Acceptance Test the Objective Evidence of system compliance with all requirements of this SOW and SRD that are applicable to the test.	Mandatory
SOWP-208	5.8.3.6 The Contractor must reconduct and permit Canada to witness all Acceptance Testing as required to demonstrate that all changes that were authorized in accordance with Section 6 of this SOW are compliant with this SOW and SRD.	Mandatory
SOWP-50	5.8.4 Acceptance Test Reports	Heading
SOWP-239	5.8.4.1 The Contractor must prepare and deliver an Acceptance Test Report for each Acceptance Test, in accordance with CDRL-019 and UWSU-DID-SE-012 to document all Objective Evidence of SOW and SRD compliance obtained during the test.	Mandatory
SOWP-221	5.8.4.2 The Contractor must obtain acceptance by Canada of the First Article FAT Test Report prior to commencement of the Functional Audit.	Mandatory
SOWP-587	5.8.4.3 The Contractor must obtain acceptance by Canada of the First Article HAT Test Report prior to commencement of the First Article SAT.	Mandatory
SOWP-588	5.8.4.4 The Contractor must obtain acceptance by Canada of the First Article SAT Test Report prior to commencement of the Qualification Review.	Mandatory
SOWP-589	5.8.4.5 The Contractor must obtain acceptance by Canada of each Recurring Article FAT Test Report prior to commencement of the Recurring Article HAT.	Mandatory
SOWP-590	5.8.4.6 The Contractor must obtain acceptance by Canada of each Recurring Article HAT Test Report prior to commencement of the Recurring Article SAT.	Mandatory
SOWP-591	5.8.4.7 The Contractor must obtain acceptance by Canada of each Recurring Article SAT Test Report.	Mandatory
SOWP-592	5.8.4.8 The Contractor must identify to Canada all Acceptance Test results that are non-compliant in the Test Reports.	Mandatory
SOWP-594	5.8.4.9 The Contractor must rectify all non-compliance identified in the Test Reports and:	Mandatory
SOWP-595	(a) conduct all retesting required in order to demonstrate compliance with this SOW and SRD;	Mandatory
SOWP-596	(b) permit Canada to witness all retesting; and	Mandatory
SOWP-597	(c) resubmit Test Reports in accordance with the process specified in Section 5.8.4.	Mandatory
SOWP-	5.8.5 Qualification Review	Heading

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40		
SOWP-226	5.8.5.1 The Contractor must convene a System Qualification Review with Canada following acceptance of the First Article SAT Test Report.	Mandatory
SOWP-227	5.8.5.2 The Contractor must demonstrate to Canada during the Qualification Review that all Acceptance Tests, evaluation results and related Objective Evidence up to and including the First Article SAT, verify compliance of the First Article UWSS with this SOW and SRD.	Mandatory
SOWP-228	5.8.5.3 The Contractor must provide all documentation requested by Canada to conduct the Qualification Review.	Mandatory
SOWP-229	5.8.5.4 The Contractor must correct all deviations specified by Canada following the Qualification Review.	Mandatory
SOWP-230	5.8.5.5 The Contractor must progress Recurring Production following acceptance by Canada of the Qualification Review minutes.	Mandatory
SOWP-60	6 CONFIGURATION MANAGEMENT	Heading
SOWP-61	6.1 Configuration Management Program	Heading
SOWP-535	6.1.1 The Contractor must deliver a Configuration Management Plan (CMP) in accordance with D-01-002-007/SG-001, Requirements for the Preparation of Configuration Management Plans, and D-01-002-007/SG-006, Requirements for the Selection of Configuration Items, and in accordance with CDRL-032 and UWSU-DID-CM-001.	Mandatory
SOWP-266	6.1.2 The Contractor must implement and maintain a Configuration Management Program in accordance with the authorized CMP.	Mandatory
SOWP-62	6.2 Configuration Identification	Heading
SOWP-603	6.2.1 The Contractor must identify UWSS Configuration Items (CI) in accordance with D-01-002-007/SG-006, Requirements for the Selection of Configuration Items.	Mandatory
SOWP-272	6.2.2 The Contractor must prepare and deliver an Equipment Breakdown Structure (EBS) that identifies the selected Configuration Items (CIs), in accordance with CDRL-033 and UWSU-DID-CM-002.	Mandatory
SOWP-604	6.2.3 The Contractor must prepare and deliver Product Configuration Documentation in accordance with CDRL-044 and UWSU-DID-TD-001 in order to describe the necessary physical and functional characteristics of each CI and each verification needed to demonstrate the CI's performance.	Mandatory
SOWP-605	6.2.4 The Contractor must prepare and deliver the Equipment Labelling Package in accordance with in accordance with D-02-002-001/SG-001, Identification Marking of Canadian Military Property, CDRL-036 and UWSU-DID-CM-005 for authorization by Canada.	Mandatory

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SOWP-606	6.2.5 The Contractor must use the standard configuration nomenclature in the Product Configuration Documentation and the Equipment Labelling Package to identify each UWSS Hardware Configuration Item (HWCI) and Computer Software Configuration Item (CSCI) in accordance with D-01-002-007/SG-006.	Mandatory
SOWP-607	6.2.6 The Contractor must maintain the Product Configuration Documentation in accordance with CDRL-044 and UWSU-DID-TD-001.	Mandatory
SOWP-608	6.2.7 The Contractor must maintain the Equipment Labelling Package in accordance with CDRL-036 and UWSU-DID-CM-005.	Mandatory
SOWP-609	6.3 Configuration Audits	Heading
SOWP-610	6.3.1 The Contractor must support Canada in conducting the Functional Audit and the Physical Configuration Audit following acceptance of the First Article FAT Test Report.	Mandatory
SOWP-611	6.3.2 The Contractor must provide all documentation requested by Canada for the Functional Audit and the Physical Configuration Audit.	Mandatory
SOWP-612	6.3.3 The Contractor must support Canada as required in conducting the Functional Audit and the Physical Configuration Audit to verify that all Acceptance Test and evaluation results, up to and including FAT, demonstrate compliance of the current authorized configuration of the First Article System with the Functional Baseline.	Mandatory
SOWP-613	6.3.4 The Contractor must correct all functional deviations specified by Canada following the Functional Audit that exist between the function of UWSS First Article and the Functional Baseline.	Mandatory
SOWP-614	6.3.5 The Contractor must support Canada as required in conducting the Physical Configuration Audit to verify that the First Article UWSS HWCIs and CSCIs comply with the latest Product Configuration Documentation, and that the provisioned items are of the correct configuration, are supportable, and available.	Mandatory
SOWP-615	6.3.6 The Contractor must correct all functional and physical deviations specified by Canada following the Physical Configuration Audit.	Mandatory
SOWP-616	6.3.7 The Contractor must use the Product Configuration Documentation accepted by Canada as the Product Baseline.	Mandatory
SOWP-617	6.3.8 The Contractor must proceed to install the First Article UWSS only upon acceptance of the Functional and Product Baselines.	Mandatory
SOWP-618	6.3.9 The Contractor must maintain the configuration of the Functional and Product Baselines and the corresponding UWSS HWCIs and CSCIs in accordance with the processes as identified in Section 6.4.	Mandatory
SOWP-	6.4 Configuration Control	Heading

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63		
SOWP-273	6.4.1 The Contractor must control, manage and track all changes to the Functional and Product Baselines.	Mandatory
SOWP-274	6.4.2 The DND TA must be the final approving authority for all changes to the Product Baseline (PBL), for the duration of the Contract.	Mandatory
SOWP-275	6.4.3 The Contractor must prepare and deliver Engineering Change Proposals (ECPs) in accordance with CDRL-013 and UWSU-DID-SE-006 to request authorization for configuration changes, Functional Baseline changes, and Product Baseline changes.	Mandatory
SOWP-276	6.4.4 The Contractor must prepare and deliver Request for Deviations (RFDs) in accordance with CDRL-006 and UWSU-DID-PM-006 when the Contractor determines that it is not possible to satisfy specified requirements.	Mandatory
SOWP-277	6.4.5 The Contractor must prepare and deliver Request For Waivers (RFWs) in accordance with CDRL-006 and UWSU-DID-PM-006 in order to seek authorization to deliver a one-time lot of manufactured materials not meeting specified requirements, but for which the Contractor believes that the items are suitable for use "as is" or after rework or retrofit by an approved method.	Mandatory
SOWP-278	6.4.6 The Contractor must prepare and deliver Specification Change Notices (SCNs) in accordance with CDRL-035 and UWSU-DID-CM-004, for each specification that requires revision if ECPs or RFDs are approved.	Mandatory
SOWP-279	6.4.7 The Contractor must prepare and deliver any Notice of Revisions (NORs) in accordance with CDRL-014 and UWSU-DID-SE-007, for drawings, associated lists and other non-specification type documents which require revision if ECPs or RFDs are approved.	Mandatory
SOWP-280	6.4.8 The Contractor must neither change nor modify any item, component and product after Canada's approval of the Functional and Product Baselines without an ECP.	Mandatory
SOWP-619	6.4.9 The Contractor must implement all changes to the UWSS Functional and Product Baselines, CIs and all associated deliverables as defined in an Engineering Change Proposal upon Authorization by Canada.	Mandatory
SOWP-620	6.4.10 The Contractor must re-conduct applicable Acceptance Testing in accordance with Section 5.8.3, and submit to all Configuration Audits in accordance with Section 6.3, as necessary to verify that all Design Changes have been implemented in accordance with this SOW and SRD.	Mandatory
SOWP-	6.4.11 The Contractor must amend all deliverable documentation	Mandatory

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621	specified by this SOW and SRD to reflect the implementation of each Engineering Change Proposal, and resubmit this documentation to Canada for authorization.	
SOWP-64	6.5 Configuration Status Accounting	Heading
SOWP-281	6.5.1 The Contractor must implement and maintain Configuration Status Accounting (CSA) processes and procedures as part of the CM Program, for the duration of the Contract.	Mandatory
SOWP-282	6.5.2 The Contractor must prepare and deliver CSA Reports in accordance with CDRL-034 and UWSU-DID-CM-003, to provide the information required to effectively manage CIs and provide visibility of CM activities including status of deviations, waivers and engineering changes.	Mandatory
SOWP-65	7 INTEGRATED LOGISTICS SUPPORT	Heading
SOWP-66	7.1 General	Heading
SOWP-283	7.1.1 The Contractor must implement an Integrated Logistics Support (ILS) program to ensure that the project provides the required level of operational capability at the lowest Total Ownership Cost.	Mandatory
SOWP-287	7.1.2 The Contractor must deliver an ILS Plan in accordance with CDRL-037 and UWSU-DID-ILS-001.	Mandatory
SOWP-292	7.1.3 The Contractor must analyze the UWSS system parameters, maintenance, specialty engineering and ILS requirements, as outlined in the SRD and this SOW to derive the maintenance tasks and to meet the availability and reliability SRD requirements.	Mandatory
SOWP-295	7.1.4 The Contractor must conduct maintenance analysis to determine maintenance requirements, including all Preventive Maintenance actions. These are based on the following:	Mandatory
SOWP-296	(a) identification of components that are critical in terms of mission and system operation;	Mandatory
SOWP-297	(b) components whose functional failure will not be evident to the operator;	Mandatory
SOWP-298	(c) economical or operational consequences of failure, or both; and	Mandatory
SOWP-299	(d) when scheduled maintenance can prevent failure.	Mandatory
SOWP-285	7.1.5 The Contractor must conduct Logistic Support Analysis and deliver a Logistic Support Analysis (LSA) Document in accordance with the ILS Plan and in accordance with CDRL-041 and UWSU-DID-ILS-005.	Mandatory
SOWP-	7.1.6 The Contractor must use the results of the LSA to determine	Mandatory

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622	required spares in accordance with the Provisioning Documentation Package, CDRL-038 and UWSU-DID-ILS-002.	
SOWP-623	7.1.7 The Contractor must use the results of the LSA and the Provisioning Documentation package to conduct Initial Provisioning in accordance with Section 7.4.	Mandatory
SOWP-288	7.1.8 The Contractor must assess all Requests for Deviations or Waivers, Engineering Change Proposals (ECP) and Specification Change Notices (SCN) for logistics, cost, schedule and resource impacts.	Mandatory
SOWP-78	7.2 Engineering Drawings	Heading
SOWP-302	7.2.1 The Contractor must prepare and deliver Engineering Drawings and Associated Lists in accordance with the requirements of CDRL-015 and UWSU-DID-SE-008.	Mandatory
SOWP-67	7.3 Integrated Logistic Support Conference	Heading
SOWP-289	7.3.1 The Contractor must convene an ILS Conference with Canada, in accordance with the Project Master Schedule, following the Critical Design Review, in order to explain and validate the proposed ILS process with respect to this SOW and the ILS Plan.	Mandatory
SOWP-1244	7.3.2 The Contractor must prepare and deliver the Meeting Agenda for the ILS Conference and record and deliver ILS Conference minutes in accordance with the requirements of CDRL-003, UWSU-DID-PM-003, CDRL-005 and UWSU-DID-PM-005 respectively.	Mandatory
SOWP-290	7.3.3 The Contractor must prepare and deliver a draft ILS Conference Documentation Package for authorization by Canada, consisting of at least the following documents:	Mandatory
SOWP-624	(a) the Logistic Support Analysis (LSA) in accordance with the ILS Plan and in accordance with CDRL-041 and UWSU-DID-ILS-005;	Mandatory
SOWP-625	(b) the Training and Training Support Plan in accordance with CDRL-039 and UWSU-DID-ILS-003;	Mandatory
SOWP-626	(c) the Installation and Set-to-Work Manual in accordance with CDRL-049 and UWSU-DID-TD-006;	Mandatory
SOWP-627	(d) the System User Manual in accordance with CDRL-047 and UWSU-DID-TD-004;	Mandatory
SOWP-629	(e) the System Maintenance Manual in accordance with CDRL-048 and UWSU-DID-TD-005;	Mandatory
SOWP-628	(f) the Illustrated Parts Breakdown in accordance with CDRL-050 and UWSU-DID-TD-007;	Mandatory
SOWP-	(g) the Repairable Items List in accordance with CDRL-051 and	Mandatory

ID		Requirement Type
1136	UWSU-DID-TD-008; and	
SOWP-678	(h) the Test and Tools Equipment List in accordance with CDRL-042 and UWSU-DID-ILS-006.	Mandatory
SOWP-632	7.3.4 The Contractor must define the proposed UWSS ILS processes at the ILS Conference in accordance with the ILS Conference Documentation Package.	Mandatory
SOWP-633	7.3.5 The Contractor must incorporate all observations made by Canada, and mutually agreed with the Contractor, in the draft ILS Conference Documentation Package.	Mandatory
SOWP-634	7.3.6 The Contractor must prepare and deliver a final ILS Conference Documentation Package for authorization by Canada.	Mandatory
SOWP-635	7.3.7 The Contractor must complete the production of First Article UWSS following authorization of the ILS Conference Minutes and ILS Conference Documentation Package by Canada, and in accordance with the Project Master Schedule.	Mandatory
SOWP-630	7.4 Initial Provisioning	Heading
SOWP-301	7.4.1 The Contractor must convene an Initial Provisioning Conference with Canada in order to explain and validate the proposed Initial Provisioning process and associated materiel with respect to this SOW and the ILS Plan.	Mandatory
SOWP-642	7.4.2 The Contractor must convene a Long Lead Time Initial Provisioning Conference with Canada to precede the Initial Provisioning Conference, if necessary, to enable delivery of Long Lead Time items in accordance with the authorized the ILS Plan.	Mandatory
SOWP-1245	7.4.3 The Contractor must prepare and deliver the Meeting Agendas for the Provisioning Conferences and record and deliver Provisioning Conference minutes in accordance with the requirements of CDRL-003, UWSU-DID-PM-003, CDRL-005 and UWSU-DID-PM-005 respectively.	Mandatory
SOWP-636	7.4.4 The Contractor must prepare and deliver a draft Provisioning Documentation Package in accordance with CDRL-038 and UWSU-DID-ILS-002 for authorization by Canada.	Mandatory
SOWP-641	7.4.5 The Contractor must define the initial quantities of Level 1 and Level 2 spares in the Provisioning Documentation Package in accordance with CDRL-038 and UWSU-DID-ILS-002.	Mandatory
SOWP-637	7.4.6 The Contractor must define the proposed Initial Provisioning processes and each materiel item at the Initial Provisioning Conference in accordance with the Provisioning Documentation Package.	Mandatory
SOWP-	7.4.7 The Contractor must incorporate all observations made by	Mandatory

ID		Requirement Type
638	Canada, and mutually agreed with the Contractor, in the draft Provisioning Documentation Package.	
SOWP-639	7.4.8 The Contractor must prepare and deliver a final Provisioning Documentation Package for Authorization by Canada in accordance with CDRL-038 and UWSU-DID-ILS-002.	Mandatory
SOWP-640	7.4.9 The Contractor must progress to provisioning and deliver each Initial Provisioning material item authorized by Canada, following authorization of the Initial Provisioning Conference Minutes and Provisioning Documentation Package, and in accordance with the Project Master Schedule.	Mandatory
SOWP-672	7.5 Tools and Test Equipment	Heading
SOWP-673	7.5.1 The Contractor must identify all Special Purpose tools, all General Purpose tools, and all test equipment necessary to perform first and second level maintenance of the UWSS, in accordance with CDRL-042 and UWSU-DID-ILS-006.	Mandatory
SOWP-676	7.5.2 The Contractor must modify, as necessary, Special Purpose Tools and Test Equipment (STTE) identified in the approved Tools and Test Equipment (TTE) List that is Government Furnished Equipment.	Mandatory
SOWP-674	7.5.3 The Contractor must provide every STTE in accordance with the approved TTE List.	Mandatory
SOWP-85	7.6 Training	Heading
SOWP-88	7.6.1 Training and Training Support Plan	Heading
SOWP-320	7.6.1.1 The Contractor must prepare and deliver a Training and Training Support Plan, including a Training Development Program Report, in accordance with CDRL-039 and UWSU-DID-ILS-003, that addresses each of the requirements specified in this SOW and SRD and that is consistent with the Canadian Forces Individual Training and Education System principles.	Mandatory
SOWP-321	7.6.1.2 The Training and Training Support Plan must propose a course of action to transition from the Initial Cadre Training (ICT) to a DND self sustained training mode, including the recommended training tools and their associated costs.	Mandatory
SOWP-1118	7.6.1.3 The Training and Training Support Plan must incorporate a training improvement program through the gathering and analysis of student feedback.	Mandatory
SOWP-1119	7.6.1.4 The Contractor must deliver Training and Training Support in accordance with the authorized Training and Training Support Plan.	Mandatory
SOWP-	7.6.1.5 In conjunction with the Naval Personnel Training Group	Information

ID		Requirement Type
1116	(NPTG), the UWSU Project has initiated a Training Needs Analysis (TNA) during the Definition Phase, to be completed during Implementation Phase.	
SOWP-1117	7.6.1.6 The Contractor must assist Canada in development of the TNA document during the Implementation Phase.	Mandatory
SOWP-643	7.6.1.7 The Contractor must consult Canada for information on occupations, positions, training and work environments that will be affected by the acquisition of the UWSS and must create a Task List for operators and maintainers, identifying operator and maintenance tasks for system, sub-system, and integrated system based on that consultation.	Mandatory
SOWP-644	7.6.1.8 The Contractor must identify Performance Objectives for each Task List created.	Mandatory
SOWP-645	7.6.1.9 The Contractor must create Enabling Objectives to address the new skills and knowledge required for the Training Development Program.	Mandatory
SOWP-89	7.6.2 Initial Cadre Training (ICT)	Heading
SOWP-322	7.6.2.1 The Contractor must prepare and deliver an UWSS Operator ICT Package in accordance with CDRL-040 and UWSU-DID-ILS-004 based upon the authorized Training Development Program Report.	Mandatory
SOWP-323	7.6.2.2 The Contractor must prepare and deliver an UWSS Maintainer ICT Package in accordance with CDRL-040 and UWSU-DID-ILS-004 based upon the authorized Training Development Program Report.	Mandatory
SOWP-324	7.6.2.3 The Contractor must structure Operator and Maintainer training around the conventional, classroom, instructor-led format, with provision for "hands-on" time with a UWSS to exercise the required Operator and Maintainer skills.	Mandatory
SOWP-663	7.6.2.4 The Contractor must complete a minimum of six (6) Operator ICT and six (6) Maintainer ICT serial events.	Mandatory
SOWP-1082	7.6.2.5 Additional ICT serials may be authorized as part of the approved Training and Training Support Plan.	Information
SOWP-664	7.6.2.6 The Contractor must complete each ICT session prior to commencement of HAT, in accordance with the Project Master Schedule.	Mandatory
SOWP-662	7.6.2.7 The Contractor must schedule Operator and Maintainer ICT such as to minimize skill fade between the delivery of instruction and the use of those acquired skills in actual operations and maintenance activities, in accordance with the Project Master Schedule.	Mandatory
SOWP-646	7.6.2.8 The Contractor must conduct Operator ICT, based upon the Authorized ICT package, for a minimum of 10 to a maximum of 15	Mandatory

ID		Requirement Type
	students, at locations designated by Canada.	
SOWP-647	7.6.2.9 The Contractor must conduct Maintainer ICT, based upon the Authorized ICT package, for a minimum of 10 to a maximum of 15 students, at locations designated by Canada.	Mandatory
SOWP-649	7.6.2.10 The Contractor must provide the following to support the conduct of Operator ICT:	Mandatory
SOWP-650	(a) Instructors that are qualified to teach UWSS Operation;	Mandatory
SOWP-651	(b) Instructional support equipment as required;	Mandatory
SOWP-652	(c) Personnel capable of maintaining and repairing the instructional support equipment in order to minimize all interruptions to training; and	Mandatory
SOWP-653	(d) A copy of all required student documentation specified in the Authorized Operator ICT Package, CDRL-040 and UWSU-DID-ILS-004, for each student.	Mandatory
SOWP-656	7.6.2.11 The Contractor must provide the following to support the conduct of Maintainer ICT:	Mandatory
SOWP-657	(a) Instructors that are qualified to teach UWSS Level 1 and Level 2 Maintenance;	Mandatory
SOWP-658	(b) Instructional support equipment, tools and test equipment, as required;	Mandatory
SOWP-661	(c) Maintenance supplies and spare parts applicable to Level 1 and Level 2 Maintenance instructional activities;	Mandatory
SOWP-659	(d) Personnel capable of maintaining and repairing the instructional support equipment in order to minimize all interruptions to training; and	Mandatory
SOWP-660	(e) A copy of all required student documentation specified in the authorized Maintainer ICT Package, CDRL-040 and UWSU-DID-ILS-004, for each student.	Mandatory
SOWP-1075	7.6.3 Conversion Training	Heading
SOWP-1076	7.6.3.1 Conversion training will be conducted at NFS(A) in Halifax, Nova Scotia, and NFS(P) in Esquimalt, British Columbia. This training, where applicable, will enable Sonar Operators and Weapons Engineering Technicians, and MARS Officer Underwater Warfare Directors and Combat Systems Engineering Officers, who are not part of the initial cadre but are otherwise qualified in their occupation, to perform and supervise the tasks associated with the UWSS.	Information
SOWP-1077	7.6.3.2 The Contractor must support NTDC(A) and NTDC(P) in the development and delivery of a conversion training plan to enable an	Mandatory

ID		Requirement Type
	efficient and effective turnover of qualified personnel from the initial cadre to those already holding a commensurate Qualification Level in their occupation.	
SOWP-1078	7.6.4 Steady-state Training	Heading
SOWP-1079	7.6.4.1 Steady-state training will be conducted at NFS(A) in Halifax, Nova Scotia, and NFS(P) in Esquimalt, British Columbia. This training, where applicable, will be embedded in Qualification Levels (QL) for Sonar Operators and Weapons Engineering Technicians and within the Sonar Op QL6B for MARS Officer Underwater Warfare Director (UWWD) students' familiarization.	Information
SOWP-1080	7.6.4.2 The Contractor, in conjunction with the NTDC(A), must develop and deliver a training transition plan to enable an efficient and effective transition to Steady State Training for operators.	Mandatory
SOWP-79	7.7 Packaging, handling, storage and Transportation	Heading
SOWP-303	7.7.1 The Contractor must ensure that packaging of provisioned items will provide adequate protection, consistent with good economy, against damage, deterioration and loss of identification during storage, handling and shipment.	Mandatory
SOWP-304	7.7.2 The Contractor must deliver the UWSS and associated shore systems to the following locations, on acceptance by Canada:	Mandatory
SOWP-305	(a) CFB Halifax; and	Mandatory
SOWP-306	(b) CFB Esquimalt.	Mandatory
SOWP-98	7.8 Disposal of Obsolete Items	Heading
SOWP-335	7.8.1 If as a result of the UWSS installation, there are obsolete items that require disposal, the Contractor must identify the items to the TA.	Mandatory
SOWP-100	8 QUALITY ASSURANCE	Heading
SOWP-101	8.1 Quality Assurance Program	Heading
SOWP-399	8.1.1 The Contractor must conduct a Quality Assurance (QA) Program in accordance with the approved Quality Assurance Plan as defined in the PMP.	Mandatory
SOWP-338	8.1.2 The Contractor must maintain its Quality Assurance (QA) Program and Quality Management System for the duration of the contract.	Mandatory

ID		Requirement Type
SOWP-398	8.1.3 The Contractor must appoint a Quality Assurance Manager who has responsibility for implementing the QA requirements.	Mandatory
SOWP-339	8.1.4 Quality Control (QC) Inspection and Test records must be retained by the Contractor.	Mandatory
SOWP-340	8.1.5 Upon request, the Contractor must make the QC Inspection and Test records available to the TA's Quality Assurance Representative (QAR).	Mandatory