

ANNEX “B” - MANDATORY TECHNICAL CRITERIA - DRAFT

At bid closing time, the Bidder must comply with the following mandatory technical criteria and provide the necessary documentation to support compliance. Each criterion must be addressed separately and the Bidder must specify where the information can be found in the brochure or data sheets by completing the “Reference to Bidder’s Proposal” column. Canada reserves the right to verify any and all information. Bids that fail to meet the following mandatory technical criteria will be declared non-responsive. By submitting a bid, the Bidder certifies it meets all the mandatory requirements of the Statement of Work including those that are not part of this mandatory technical criteria bid evaluation.

Definition of Other Substantiating Documentation includes Operator's manual, Engineering reports, flight test reports/data, engineering attestations, Interface control documents, other Operational/Technical substantiating documentation, but does not include sales / marketing information.

Suitability Requirements

ID	Mandatory Criteria	Bidder certifies the Requirement is understood and will be met (YES / NO)	Supporting Evidence Required	Reference to Bidder's Proposal	Pass (P)	Fail (F)	Verification of Supporting Evidence by Canada (Page/Para #)
REQ 1	The MSIMS must have already achieved a Technology readiness level of 9 in accordance with Innovation, Science, and Economic Development Canada’s (ISED) definition. <a href="https://www.ic.gc.ca/eic/site/080.nsf/eng/00002.html">https://www.ic.gc.ca/eic/site/080.nsf/eng/00002.html</a>		<p>The Bidder's documentation must prove that the proposed solution is at TRL 9.0 and clearly identifies it as an operational system at the time of the bid by providing references to other customers using the system.</p> <p>The Bidder must provide proof of successful completion of three similar projects in the last 10 years from RFP closing date.</p> <p>The substantiating evidence must include name of customer, start and end date of project, description of project, dollar value, type of aircraft, type(s) of specialized operational mission equipment designed and installed and reference letter from client. Please complete the template in Annex A.</p>				
REQ 2	Controls for the MSIMS’s mission sensors must be provided at each Mission Work Station.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				

REQ 3	The MSIMS installations being special operations equipment may require integration to aircraft systems. Where integration occurs, the design must have no effect on the continued airworthiness and operation of the NASP aircraft.		<p>The Bidder must demonstrate in their proposal, with clear references, how this requirement is understood and their solution to address it, as detailed in the SOW. The Bidder must provide three similar projects in the last 10 years from RFP closing date showing their system being integrated on maritime patrol aircraft which had no effect on the continued airworthiness and operation of the subject aircraft.</p> <p>The substantiating evidence must be provided in the template in Appendix B. Data must include the name of customer, the start and end date of project, a description of the project, contract dollar value, type of aircraft, type(s) of specialized operational mission equipment designed and installed and reference letter from client.</p>				
REQ 4	The MSIMS must provide a standardized architecture for operation, functionality and user interface across the NASP fleet of aircraft allowing interoperability of Surveillance Officers with only one training and standards program.		The Bidder must demonstrate in their proposal, with clear references, how this requirement is understood and their solution to address it, as detailed in the SOW.				
REQ 5	The Bidder must ensure the system design and materials used to construct the MSIMS, including its sensors and subsystems ensure bonding and Electromagnetic Compatibility between the systems and the aircraft.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 8	The MSIMS, including its sensors and subsystems, must be constructed to operate, at a minimum, within the environmental conditions described in the SOW.		<p>Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.</p> <p>This must be verified at Factory Acceptance by the bidder providing proof of documented environmental conditions of system components.</p>				
REQ 9	All equipment (interior and exterior) will be subjected to the vibration and shock environment of the aircraft and must meet the shock and vibration standards in accordance with RTCA-DO160G.		<p>Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.</p> <p>Note: This must be verified at Factory Acceptance by the bidder providing proof of documented results from tests relating to shock and vibration in accordance with RTCA-DO160G standards.</p>				
REQ 10	All equipment (interior and exterior) will be exposed to humidity and must meet standards in accordance with RTCA-DO160G		<p>Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.</p> <p>Note: This must be verified at Factory Acceptance by the bidder providing proof of documented results from tests relating to humidity in accordance with RTCA-DO160G standards.</p>				

REQ 11	The Bidder must document and provide the environmental limits of components, systems and sub-systems in accordance with the items listed in the SOW.		<p>Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.</p> <p>Note: This must be verified at Factory Acceptance by the bidder providing proof of documented environmental conditions of system components.</p>				
REQ 12	The MSIMS Operator-machine interface architecture must enable the Operator to access all sensor controls and recording functions within a maximum three level hierarchy, including the top-level menu(s).		The Bidder must demonstrate in their proposal, with clear references to the Operator's manual, how this requirement is understood and their solution to address it, as detailed in the SOW.				
REQ 13	Unless otherwise specified, the MSIMS must provide at each MWS all the functions necessary to control and monitor the sensors and any associated systems.		The Bidder must demonstrate in their proposal, with clear references to the Operator's manual, how this requirement is understood and their solution to address it, as detailed in the SOW.				
REQ 14	The MSIMS must allow either of the MWS's to exercise full control over individually selected sensors and their associated systems.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 15	The MSIMS must provide the Operator with a means to selectively display any selected mission and sensor system's video and data at each MWS.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 16	<p>The MSIMS must allow the Operator to display and temporarily remove from display, any combination of the individual windows at each MWS in accordance with the items listed in the SOW.</p> <p>Note: The intent is to display a), b), c), d), e), f) and g) as individual windows. Surveillance Radar display at f) could be displayed as individual windows or as a single window with only one display enabled at any one time. As such the Operator will be able to individually select from 1 to a maximum of 7 or 9 windows.</p>		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 17	The MSIMS must run on Windows 10 operating system, with a GUI for the Operator's control and management of data.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 18	The MSIMS must provide the capability for Canada to install the Microsoft Office suite.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 19	The MSIMS must provide the Operator with the means to export reports from the system in Portable Document Format (PDF) and in a Microsoft Word and Excel.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 20	The MSIMS must have its own dedicated GPS and the specification of the unit chosen by the Bidder will be discussed and approved at the Preliminary Design Review (PDR) and Critical Design Review (CDR) meetings.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 21	All data must be geo-rectified and geo-referenced to allow for accurate mapping and spatial relation of mission data. The frequency of sampling must allow for a correct geographical representation of the sensor data.		The Bidder must demonstrate in their proposal, with clear references to the Operator's manual, how this requirement is understood and their solution to address it, as detailed in the SOW.				

REQ 22	The maximum weight of the MSIMS and MWS (all units) must not exceed 1050 lbs. (477 kg).		Weight savings is very important in the design and construction of the MSIMS. The Bidder must demonstrate in their proposal, the MSIMS system components weight in the Interface Control Document or Engineering Documents.				
REQ 23	The system must not exceed power available on the aircraft, estimated to be:  a) 60 HZ 115V AC Power= 1000 VA; and  b) 28 VDC Power= 250 Amps per side.		The Bidder must demonstrate in their proposal, the MSIMS system power requirements in the Interface Control Document, Electrical Load Analysis or Engineering Documents.				
REQ 24	The MSIMS must be capable of operating within the following flight parameters:  a) Ground speed: 110 knots to 300 knots (ground speed)  b) Altitude: 200 feet to 25,000 feet (above sea level)		The Bidder must demonstrate in their proposal, with clear references to the Operator's manual, how this requirement is understood and their solution to address it, as detailed in the SOW.				
REQ 25	The MSIMS must integrate two Ericsson SLAR antennas, part number 103 01/5 to produce a dual-sided, strip-map radar image with specifications in accordance with the SOW.		<p>The Bidder must demonstrate in their proposal, with clear references to substantiating documentation, proof of the experience they have integrating Ericsson SLAR into the mission system. The response must clearly demonstrate that this requirement is understood and their solution to address it, as detailed in the SOW.</p> <p>Must include name of customer, start and end date of project, description of project, dollar value, type of aircraft, type(s) of specialized operational mission equipment designed and installed.</p> <p>Provide examples of three previous similar work completed within the last ten years from RFP Closing date. If more than three examples and/or references are provided, the evaluation team will only evaluate the most recent three examples.</p>				
REQ 26	Deleted Requirement						
REQ 27	The SLAR processing software must be capable of producing imagery with ground range swath width of 80 km or greater per side in the dual-sided configuration and with a minimum pixel resolution of 60 m x 60 m.		The Bidder must demonstrate in their proposal, with clear references to substantiating documentation such as operator's manuals, how this requirement is understood and their solution to address it, as detailed in the SOW.				

REQ 28	All SLAR data must be recorded automatically when the sensor is operating.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 29	The SLAR must record a new line of data, at a minimum, every 60m of flight over ground.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 30	The MSIMS must provide a means for the Operator to control the SLAR functions including, at a minimum, the functions listed in the SOW.		The Bidder must demonstrate in their proposal, with clear references to substantiating documentation such as operator's manuals, how this requirement is understood and their solution to address it, as detailed in the SOW.				
REQ 31	The MSIMS must provide the Operator with a means to independently adjust the SLAR gain (amplification of the signal) on each antennae receiver to be in accordance with at least the functionality listed in the SOW.		The Bidder must demonstrate in their proposal, with clear references to substantiating documentation such as operator's manuals, how this requirement is understood and their solution to address it, as detailed in the SOW.				
REQ 32	The MSIMS must provide the Operator with a means to independently adjust the Sensitivity Time Constant (STC) on the raw SLAR data for each antennae with the following states: Low, Medium and High.		The Bidder must demonstrate in their proposal, with clear references to substantiating documentation such as operator's manuals, how this requirement is understood and their solution to address it, as detailed in the SOW.				
REQ 33	The SLAR, under normal operation, will not be operated on the ground. The MSIMS must provide a means for Canada to transmit the SLAR on the ground for maintenance checks.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 34	The SLAR must produce continuous strips of imagery in the form of a waterfall display with the most recent data at the top of the window.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 35	The SLAR data must be reviewable by scrolling backward in time freezing the display of real-time data.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 36	The MSIMS must allow the Operator to scroll through the SLAR data using the Multi-axis joystick, the keyboard arrow keys on the keyboard and using the cursor to move a scroll bar.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 37	The SLAR display zoom level must be controlled by the Operator using a Multi-Axis Joystick Controller and keyboard functionality (i.e +/- keys)		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 38	The MSIMS must provide Operator control over the zoom level of the SLAR display with, at a minimum, the predefined zoom levels listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 39	The MSIMS must allow the Operator to pan side to side in the SLAR window using the Multi-axis joystick, the keyboard functionality and using the cursor to move a scroll bar.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 40	When SLAR data is being reviewed by an Operator, new data must be simultaneously acquired and stored but not shown on the display until the Operator selects to return to the live data stream using a single function key or Multi-axis joystick button control.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				

REQ 41	The SLAR display distance markers must be displayed on the SLAR imagery at fixed increments of 5 nm, regardless of zoom level.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 42	The Operator must have a means to select and deselect the display of SLAR distance markers.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 43	The MSIMS must continuously display the numeric values of zoom level and marker distance on the SLAR window.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 44	The MSIMS must provide the Operator with a means to adjust the contrast and brightness of the SLAR display that can be used both on the aircraft and on the Ground Station.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 45	The MSIMS must provide the Operator with a means to independently adjust the SLAR Contrast and Brightness with at least the functionality listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 46	Adjusting the contrast and brightness of the SLAR display must not affect the raw SLAR data only the display in the SLAR window and the georeferenced SLAR data on the moving map.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 47	The SLAR display must default to grey scale.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 48	The MSIMS must provide a means to apply a false color to the SLAR display.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 49	The MSIMS must provide a means to invert the grey and color scale of the SLAR display.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 50	Each line of SLAR recorded data must be annotated and displayed in accordance with the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 51	The MSIMS’s internal GPS must be used to annotate SLAR recorded data to be in accordance with the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 52	The MSIMS must integrate a GFE IR/UV Sensor that must be integrated with the MSIMS GPS to produce two-dimensional imagery in a line-by-line process with a typical image angle of up to 40° to each side of the aircraft centerline (resulting in >80° total field of view).		<p>The Bidder must demonstrate in their proposal, with clear references to substantiating documentation, proof of the experience they have integrating IR/UV Sensors into the mission system. The response must clearly demonstrate that this requirement is understood and their solution to address it, as detailed in the SOW.</p> <p>Must include name of customer, start and end date of project, description of project, dollar value, type of aircraft, type(s) of specialized operational mission equipment designed and installed.</p> <p>Provide examples of three previous similar work completed within the last ten years from RFP Closing date. If more than three examples and/or references are provided, the evaluation team will only evaluate the most recent three examples.</p>				
REQ 53	The MSIMS must have a data sampling frequency that ensures data overlap with no gaps between lines for the IR/UV Sensor.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				

REQ 54	The IR/UV Sensor processing must automatically compensate for aircraft ground speed to ensure the image is at the same scale along the width and length of the image.		The Bidder must demonstrate in their proposal, with clear references to substantiating documentation such as operator's manuals, how this requirement is understood and their solution to address it, as detailed in the SOW.				
REQ 55	The IR/UV imagery must have a ground range swath width and pixel resolution that varies with altitudes between 200 feet and 25,000 feet.		The Bidder must demonstrate in their proposal, with clear references to substantiating documentation such as operator's manuals, how this requirement is understood and their solution to address it, as detailed in the SOW.				
REQ 56	The MSIMS must provide a minimum IR/UV ground swath width of 750 m and minimum pixel resolution of 3 m x 3 m when positioned at 1500 feet above sea level (ASL).		The Bidder must demonstrate in their proposal, with clear references to substantiating documentation such as operator's manuals, how this requirement is understood and their solution to address it, as detailed in the SOW.				
REQ 57	The MSIMS must automatically record all IR/UV Sensor data when the sensor is operating.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 58	The MSIMS must record IR/UV scan lines at a corrected frequency to ensure each line of data corresponds to the resolution on ground.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 59	The MSIMS must provide a means for the Operator to control the IR/UV functions including, selecting the items listed in the SOW.		The Bidder must demonstrate in their proposal, with clear references to substantiating documentation such as operator's manuals, how this requirement is understood and their solution to address it, as detailed in the SOW.				
REQ 60	The IR/UV Sensor Operator controls must provide direct GAIN and LEVEL control to the sensor using the GUI with trackball control and by separate dials.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 61	The IR and UV GAIN and LEVEL controls must allow the Operator to independently adjust each from 0 - 100% in increments of 1%.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 62	The GAIN and LEVEL settings must be displayed in the sensor control GUI and on the annotation block of the IR/UV imagery.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 63	The MSIMS must produce a continuous strip of IR/UV imagery in the form of a waterfall display with most recent data at the top of the window.		The Bidder must demonstrate in their proposal, with clear references to substantiating documentation such as operator's manuals, how this requirement is understood and their solution to address it, as detailed in the SOW.				
REQ 64	The MSIMS must display IR imagery on the left and UV imagery on the right of the display window with a reference colour bar separating the two images.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 65	The IR/UV Sensor data must be reviewable by scrolling backward in time freezing the display of real-time data.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 66	The MSIMS must allow the Operator to scroll through the IR/UV data using the Multi-axis joystick, the keyboard functionality (i.e arrow keys) on the keyboard and using the cursor to move a scroll bar.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 67	When IR/UV Sensor data is being reviewed by an Operator, new data must be simultaneously acquired and stored but not shown on the display until the Operator selects to return to the live data stream using a single function key and / or the Multi-axis Joystick Control button.		The Bidder must demonstrate in their proposal, with clear references to substantiating documentation such as operator's manuals, how this requirement is understood and their solution to address it, as detailed in the SOW.				

REQ 68	The IR/UV Sensor display zoom level must be controlled by the Operator using a Multi-Axis Joystick Controller and keyboard functionality(i.e +/- keys).		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 69	As the IR/UV Sensor ground swath wide increases with altitude, the displayed distance markers must auto-adjust to compensate while providing the same predefined zoom levels as below.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 70	The MSIMS must provide display IR/UV Sensor window with predefined zoom levels and marker distances with, at a minimum, the items listed in the SOW for the Sensor positioned at 1500ft ASL.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 71	The MSIMS must allow the Operator to pan side to side in the IR/UV window using the Multi-axis joystick, keyboard functionality(i.e arrow keys) and using the cursor to move a scroll bar.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 72	The IR/UV display must default to grey scale with black at the bottom of the reference bar and white at the top.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 73	The MSIMS must provide a means to for the Operator to selectively apply a false color to the IR/UV display.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 74	When Targets are created in either the IR or UV sensors, they must be displayed in both the IR and UV sensor displays.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 75	Each line of IR/UV Sensor data must be annotated and displayed with, at a minimum, the information listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 76	The MSIMS’s internal GPS must be used to annotate IR/UV recorded data with the information listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 77	The MSIMS must display distance markers on the IR/UV that auto-adjust as the zoom level is changed by the Operator.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 78	The MSIMS must continuously display the numeric values of zoom level and marker distance on the IR/UV window.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 79	The MSIMS must provide the Operator with a means to adjust the contrast and brightness of the IR/UV display that can be used both on the aircraft and on the Ground Station.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 80	The MSIMS must provide the Operator with a means to independently adjust the IR/UV Contrast and Brightness with, at a minimum, the parameters listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 81	Adjusting the Contrast and Brightness of the IR/UV Sensor display must not affect the raw IR/UV data only the display in the IR/UV window and on the georeferenced IR/UV data on the Moving Map.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 82	The MSIMS must provide the Operator with a means to control, at a minimum, the IR/UV display functions listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				



REQ 83	The Digital Still Image Camera System must be integrated into the MSIMS using a hardwired plug-in system.		<p>The Bidder must demonstrate in their proposal, with clear references to substantiating documentation, proof of the experience they have integrating Digital Still Image Camera Systems into the mission system. The response must clearly demonstrate that this requirement is understood and their solution to address it, as detailed in the SOW.</p> <p>Must include name of customer, start and end date of project, description of project, dollar value, type of aircraft, type(s) of specialized operational mission equipment designed and installed.</p> <p>Provide examples of three previous similar work completed within the last ten years from RFP Closing date. If more than three examples and/or references are provided, the evaluation team will only evaluate the most recent three examples.</p>				
REQ 84	Two Digital Still Image Camera connection boxes for data link and power supply must be provided by the Bidder for installation in the aircraft by Canada.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 85	The Digital Still Image Camera hardwired plug-in system must provide the items listed in the SOW.		The Bidder must demonstrate in their proposal, with clear references to substantiating documentation such as operator's manuals, how this requirement is understood and their solution to address it, as detailed in the SOW.				
REQ 86	The MSIMS must store all digital full resolution “raw” images.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 87	The MSIMS must create and store a copy of each digital “raw” image with an annotation block at the top of the image that includes the information specified in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 88	The MSIMS must assign a unique image ID number to each Still Camera Image (SCI).		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 89	When an Operator is editing a SCI, the MSIMS must be in accordance with the functions listed the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 90	Metadata and properties of the SCIs must be maintained in Exchangeable Image File Format.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 91	Raw digital images must contain the metadata from the camera and MSIMS as listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				

REQ 93	The MSIMS must fully integrate and support functionality of the MX-15HDi EO/IR Camera System which will be furnished by Canada as GFE. Canada will also provide an Interface Control Document for EO/IR integration into the MSIMS and the cables for the EO/IR System as GFE.		<p>The Bidder must demonstrate in their proposal, with clear references to substantiating documentation, proof of the experience they have integrating MX15 HDi camera systems into the mission system. The response must clearly demonstrate that this requirement is understood and their solution to address it, as detailed in the SOW.</p> <p>Must include name of customer, start and end date of project, description of project, dollar value, type of aircraft, type(s) of specialized operational mission equipment designed and installed.</p> <p>Provide one example of MX15 HDI EO/IR Camera System integration completed within the last five years from RFP closing date.</p> <p>If more than one example and/or references are provided, the evaluation team will only evaluate the most recent example.</p>				
REQ 94	The MX-15HDi EO/IR Camera System must be able to operate standalone if the MSIMS becomes unserviceable. This includes the recording features associated with the Curtiss-Wright VRDV-7000.		The Bidder must demonstrate in their proposal, with clear references to substantiating documentation such as operator's manuals, how this requirement is understood and their solution to address it, as detailed in the SOW.				
REQ 95	The primary control of the MX-15HDi EO/IR Camera System must be through the MX-15HDi hand controller (GFE).		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 99	The MSIMS must provide a means to transfer the coordinates of any selected Object to allow Operator-initiated slewing of the MX-15HDi EO/IR Camera System.		The Bidder must demonstrate in their proposal, with clear references to substantiating documentation such as operator's manuals, how this requirement is understood and their solution to address it, as detailed in the SOW.				
REQ 100	The MX-15HDi EO/IR Camera System's line of sight must be continuously displayed on the Moving Map.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 101	The MSIMS must provide the Operator with the means to select and deselect the display of the MX-15HDi EO/IR Camera System's line of sight on the Moving Map.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 102	The MSIMS MX-15HDi EO/IR Camera System must generate a reticle within its imagery showing the location of the sensor's optical centerline.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 103	The MSIMS must provide a means for the Operator to display and control the MX-15HDi EO/IR Camera System's graphical overlays which includes, at a minimum, the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 104	The MSIMS must provide the Operator with a means to create a target from the MX-15HDi EO/IR Camera System's target coordinates by selecting a single button or function.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 105	The Moving Map must be able to be centred on the line of sight of the MX15HDi EO/IR Camera System.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				

REQ 106	The MSIMS must terrain compensate the MX-15HDi EO/IR Camera System’s target and line of sight positions using digital terrain elevation data available for all of Canada.		The Bidder must demonstrate in their proposal, with clear references to substantiating documentation such as operator's manuals, how this requirement is understood and their solution to address it, as detailed in the SOW.				
REQ 107	The target position from the MX-15HDi EO/IR Camera System displayed on the Moving Map must be terrain compensated.		The Bidder must demonstrate in the ir proposal, with clear references to substantiating documentation such as operator's manuals, how this requirement is understood and their solution to address it, as detailed in the SOW.				
REQ 108	The MSIMS must include a line-of-sight AIS receiver.		<p>The Bidder must demonstrate in their proposal, with clear references to substantiating documentation, proof of the experience they have integrating an AIS into the mission system. The response must clearly demonstrate that this requirement is understood and their solution to address it, as detailed in the SOW.</p> <p>Must include name of customer, start and end date of project, description of project, dollar value, type of aircraft, type(s) of specialized operational mission equipment designed and installed.</p> <p>Provide examples of three previous similar work completed within the last ten years from RFP closing date. If more than three examples and/or references are provided, the evaluation team will only evaluate the most recent three examples.</p>				
REQ 109	The AIS must conform to International Association of Marine Aids to Navigation & Lighthouse Authorities (IALA) and International Maritime Organization (IMO) Standards.		The Bidder must demonstrate in their proposal, with clear references to substantiating documentation such as operator's manuals, how this requirement is understood and their solution to address it, as detailed in the SOW.				
REQ 110	The AIS must have dual parallel receivers capable of monitoring VHF channel 87 (161.975 MHz) and channel 88 (162.025 MHz) simultaneously.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 111	All AIS contacts must be automatically imported into the MSIMS with the attributes listed in the SOW.		The Bidder must demonstrate in their proposal, with clear references to substantiating documentation such as operator's manuals, how this requirement is understood and their solution to address it, as detailed in the SOW.				
REQ 112	The MSIMS must provide the Operator with a means to display AIS contacts properties including, at a minimum, the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 113	The MSIMS must display an identifying symbol for the AIS contacts listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 114	The MSIMS must display the information associated with an AIS vessel contact symbol listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 115	The MSIMS must provide a means to visually differentiate active and inactive AIS targets through colours or different symbology.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				

REQ 116	The MSIMS must have the capacity to process and display at least 3000 AIS contacts.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 117	The MSIMS must have a capacity to process and display, at a minimum, 100 AIS aid-to-navigation (AtoN) reference points.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 118	The MSIMS must provide the Operator with a means to search AIS Targets using, at a minimum, the attributes listed in the SOW.		The Bidder must demonstrate in their proposal, with clear references to substantiating documentation such as operator's manuals, how this requirement is understood and their solution to address it, as detailed in the SOW.				
REQ 119	The MSIMS must provide the Operator with a means to display the total number of AIS targets detected during a flight.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 120	A DF must be fully integrated into the MSIMS.		<p>The Bidder must demonstrate in their proposal, with clear references to substantiating documentation, proof of the experience they have integrating a Direction Finder into the mission system. The response must clearly demonstrate that this requirement is understood and their solution to address it, as detailed in the SOW.</p> <p>Must include name of customer, start and end date of project, description of project, dollar value, type of aircraft, type(s) of specialized operational mission equipment designed and installed.</p> <p>Provide examples of three previous similar work completed within the last ten years from RFP closing date.</p> <p>If more than three examples and/or references are provided, the evaluation team will only evaluate the most recent three examples.</p>				
REQ 121	The DF must be capable of homing on all maritime and aeronautical frequencies. Homing device to monitor emergency channels 121.5, 156.8, 243.0, and 406.025 MHz.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 122	The DF must display, both visually on the Moving Map and numerically, the relative bearing and signal strength.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 123	The MSIMS must provide the Operator with a means to do the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				

REQ 124	The system must include a Surveillance Radar.		<p>The Bidder must demonstrate in their proposal, with clear references to substantiating documentation, proof of the experience they have integrating a maritime surveillance radar into a mission system. The response must clearly list the make and model of the surveillance radar that has previously been integrated into the mission system. The bidder must demonstrate that this requirement is understood and their solution to address it, as detailed in the SOW.</p> <p>Must include name of customer, start and end date of project, description of project, dollar value, type of aircraft, type(s) of specialized operational mission equipment designed and installed.</p> <p>Provide examples of three previous similar work completed within the last ten years from RFP closing date.</p> <p>If more than three examples and/or references are provided, the evaluation team will only evaluate the most recent three examples.</p>				
REQ 125	The Surveillance Radar must provide the modes of operation listed in the SOW.		The Bidder must demonstrate in their proposal, with clear references to substantiating documentation such as operator's manuals, how this requirement is understood and their solution to address it, as detailed in the SOW.				
REQ 126	The Surveillance Radar must be frequency separated from the SLAR to avoid mutual interference as both radars must operate simultaneously.		The Bidder must clearly list the frequency of the Surveillance Radar in their proposal, with clear references to substantiating documentation such as operator's manuals, how this requirement is understood and their solution to address it.				
REQ 127	The MSIMS must be capable of operating with and without the Surveillance Radar system being installed and/or serviceable.		The Bidder must demonstrate in their proposal, with clear references to substantiating documentation such as operator's manuals, how this requirement is understood and their solution to address it, as detailed in the SOW.				
REQ 128	The Surveillance Radar must continue to be fully operational if the MSIMS is unserviceable.		The Bidder must demonstrate in their proposal, with clear references to substantiating documentation such as operator's manuals, how this requirement is understood and their solution to address it, as detailed in the SOW.				
REQ 129	The Surveillance Radar must have the mandatory requirements listed in the SOW.		The Bidder must demonstrate in their proposal, with clear references to substantiating documentation such as operator's manuals, how this requirement is understood and their solution to address it, as detailed in the SOW.				
REQ 130	The Surveillance Radar must provide the Operator with the radar tilt controls listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 131	The Surveillance Radar must operate through a 360 degree azimuth sector, in all search modes.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				

REQ 132	The Surveillance Radar system must control the beam scan angle relative to the earth's horizon to compensate for aircraft roll maneuvers of up to 25 degrees.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 133	The Surveillance Radar antenna must be stabilized in the radar scanning plane throughout the mission envelope, compensating for aircraft movement in pitch and roll, to maintain a level horizon angle displayed to the Operator within the limits of the antenna.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 134	The Surveillance Radar must provide the Operator with a means to declutter individual Objects, information layers, symbology, or groups thereof, from the display.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 135	The Surveillance Radar must provide a means for the Operator to manually filter the contacts detected with the Surveillance Radar based on speed and course.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 136	The Surveillance Radar must be capable of interleaving weather radar system functions and Surveillance Radar functions.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 137	The Surveillance Radar must detect radar search and rescue transponder signals (SART) and provide a visual indication to the Operator to assist in locating the source of the signal.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 138	The Surveillance Radar must provide sector scanning centered on an Operator selected item as listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 139	The Surveillance Radar system must detect targets through elevation angles from +/- 30 degrees, centered on the aircraft centreline bearing, optimizing the elevation position of the beam as a function of the selected mode and scenario.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 140	The MSIMS must provide a means to display to the pilot and co-pilot an indication that the Surveillance Radar is transmitting.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 141	<p>The Surveillance Radar must be automatically inhibited from transmitting on the ground unless the override switch at REQ 142 is selected.</p> <p>Note: The intent of this requirement is to provide the Operator with a means to test the Surveillance Radar when taxiing before take-off. A positive on/off control switch will be provided to ensure ground crew safety.</p>		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 142	The Surveillance Radar must be capable of having a single override switch, or equivalent, mounted in the cockpit by TC-ASD during installation, to allow the Radar to transmit while on the ground.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 143	The Surveillance Radar's Antenna must be automatically inhibited from moving when the Radome is open unless the maintenance override at REQ 142 is selected.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				

REQ 144	If the Surveillance Radar requires a Radome then the Surveillance Radar must have a maintenance override in the vicinity of the Surveillance Radar Antenna to allow the antenna to rotate but not transmit when the Radome is opened for maintenance activities.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 145	The Surveillance Radar must have a maximum unambiguous range for surface search of greater than 170 nautical miles at 20,000 feet altitude.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 146	The GMTI mode must simultaneously detect moving targets on sea and land.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 147	The GMTI mode must provide a means for the Operator to manually initiate the tracking of contacts on land.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 148	The MSIMS Surveillance Radar ISAR function must be in accordance with the listed items in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 149	The ISAR mode must be able to image targets that are slow moving.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 150	In the MSIMS Surveillance Radar ISAR function, the MSIMS must be in accordance with the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 151	While displaying Inverse Synthetic Aperture Radar images, the MSIMS must provide the Operator with a means to complete the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 152	The Surveillance Radar must be integrated with the MSIMS and provide an ISAR library facility that provides the Operator with the ability to complete the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 153	In the MSIMS Surveillance Radar Imaging functions, the MSIMS must provide a means for the operator to select the swath width and control ground resolution at the centre of the Surveillance Radar sensor FOV.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 154	In the MSIMS Surveillance Radar Imaging functions, the MSIMS must be able to operate to a minimum range measured from the centre of the beam provided by a depression angle of at least 25 degrees, or 3.0 NM slant range, whichever is greater.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 155	In the MSIMS Surveillance Radar Imaging functions, the MSIMS must provide the operator with the display controls listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 156	In the MSIMS Surveillance Radar Imaging functions, the MSIMS must be able to record the imagery data and provide a means to transfer the data from the MSIMS to a removable disk drive or by file transfer.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 157	In the MSIMS Surveillance Radar Imaging functions, the MSIMS must provide the Operator with the means to select from the image formats for storage as listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 158	In the MSIMS Surveillance Radar Imaging functions, the MSIMS must automatically control the gain setting in the Stripmap, Land Spot and ISAR imaging modes.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 159	In the MSIMS Surveillance Radar Stripmap function, the MSIMS must be in accordance with the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				

REQ 160	The MSIMS Surveillance Radar Stripmap function must be in accordance with the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 161	The MSIMS Surveillance Radar Land Spot function must be in accordance with the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 162	The Surveillance Radar system Track While Scanning (TWS) function must be able to track and display at least 1000 contacts simultaneously.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 163	The MSIMS must dead reckon (DR) Contacts that are no longer being detected by any sensors or subsystems by calculating their projected paths based on last known position, speed, heading and rate of change of these parameters.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 164	The MSIMS must provide an indication to the operator when it begins to DR a Contact.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 165	The MSIMS must automatically cease DR and resume normal tracking when a Contact is re-detected by any sensor or Subsystem.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 166	The Surveillance Radar system must DR all radar targets when they are not within the radar's horizon.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 167	The MSIMS must be able to be integrated with the aircraft's satellite communications system (SATCOM) through the onboard Ethernet.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 168	Chat Function – The Bidder must provide “chat” functionality communication between on-board Operators at each MSIMS Mission Work Station and the ground command based on commercially available software.		The Bidder must demonstrate in their proposal, with clear references to substantiating documentation such as operator's manuals, how this requirement is understood and their solution to address it, as detailed in the SOW.				
REQ 169	The MSIMS must provide an interface to a web-based solution provided by the Bidder to allow an Operator off or on board the aircraft to monitor and control the digital communications when the MSIMS is unserviceable including the items listed in the SOW.		The Bidder must demonstrate in their proposal, with clear references to substantiating documentation such as operator's manuals, how this requirement is understood and their solution to address it, as detailed in the SOW.				
REQ 170	The Bidder must provide the required number of wired and wireless Ethernet LAN ports during the PDR to allow TC to install the ports.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 171	The Bidder must provide an Interface Control Document to enable Canada to manufacture the aircraft equipment racks to house the MSIMS equipment.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 172	Two separate MWSs must be provided that will allow TC-ASD to install them on the Dash-8-100 aircraft located on the left and right side of fuselage. The MWS must be designed so they can attached to the standard seat rails. The Bidder must provide the design and engineering reports for the MWS to TC-ASD. As a means of compliance they will require an analysis of the engineering report that confirms that the loading requirements and design meets the various requirements of CAR 521.		The Bidder must demonstrate in their proposal, with clear references to substantiating documentation such as operator's manuals, how this requirement is understood and their solution to address it, as detailed in the SOW.				
REQ 173	The two MWS must be identically laid out for commonality and ease of training for the Operators.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 174	Each MWS must provide both Operators with full access and control of the MSIMS, the sensors and associated mission systems.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				



REQ 175	The design of the MWS must be reviewed and approved at the PDR and CDR meetings, this will include, at a minimum the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 176	The MSIMS human-computer interfaces must provide the crew with similar, logically related transactions for similar tasks.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 177	Input to the MSIMS human-computer interface must result in positive feedback to the user of the acceptance or rejection of a data entry.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 178	The MSIMS human-computer interfaces response times must not exceed the values defined in MIL-STD-1472G Table V.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 179	The MSIMS human-computer interfaces must provide the operator with an indication when any displayed information may be corrupt or invalid.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 180	The MSIMS must have an uninterruptible power source to ensure critical mission systems can be shut down properly to ensure no data are lost if there is power interruption to the system.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 181	Each MWS must provide the Operator, at a minimum, with the means to complete the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 182	The design of the MWS must include a GFE control switch for the IR/UV door, which will be installed by Canada.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 183	The design of the MWS must include a GFE, stand-alone video recording device for the MX-15HDi Camera System separate from any recording conducted in the MSIMS, which will be installed by Canada.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 184	The design of the MWS must include a GFE supplied communications panel and headphone jack, which will be installed by Canada.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 185	Each MWS must provide a minimum total screen area equivalent to two 23-inch displays.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 187	The MWS displays must support and provide equal or higher resolution for all sensor inputs (i.e. MX-15HDi).		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 188	Each MWS must provide a "QWERTY" type input interface for text and numeric key-entries including a number pad.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 189	Each MWS must provide the Operator with a cursor control device or display control interface allowing the selection of any displayed Object and any point on the display(s).		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 190	Each MWS must be equipped with a Multi-Axis Joystick Controller that provides the Operator with, at a minimum, a means to complete the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 191	The GFE MX15HDi Hand Controller Units must be in accordance with the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 192	One GFE MX15HDi laser firing control panel must be integrated into each MWS.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 193	The MSIMS must provide the Operators with the independent means to control all sensors from each MWS.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 194	All MWS displays, controls, panels, switches and readouts must be readable by the Operators in all lighting conditions.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				

REQ 195	Each MWS must provide controls to adjust the intensity of the lighting for its controls, switches, readouts, displays, and panels from off to full-bright.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 196	The MWS must provide each Operator with a fully adjustable lamp to illuminate the MWS console during night operations.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 197	Two portable MDUs must be provided.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 199	The MSIMS must visually display mission information on two portable MDUs concurrently with the two MWS.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 200	The MDUs must display each of the mission sensor windows listed in the SOW separately.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 201	The MDUs must provide the functionality to the user listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 202	The MSIMS must employ a data management strategy that allows all mission data to be geospatially related. This could be in the form of a geodatabase but the Bidder may provide a data management structure that best meets the functionality requirements outlined in this SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 203	All geographic data must be Open Geospatial Consortium (OGC) compliant.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 204	The MSIMS must employ a standard file naming convention for all images from varying sensors, video and audio recordings.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 205	The MSIMS must provide the Operator with a means to search the database using at a minimum, text in the free-text comments field and full and partial entries of the properties listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 206	The database search function must provide the Operator with the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 208	The MSIMS must include non-volatile data storage for all mission data. The MSIMS must be capable of storing all data captured from all the mission sensors for a duration of 16 hours.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 209	To reduce end of mission data back-up times, the MSIMS must record mission data directly to the MSIMSs internal storage device and simultaneously record data to removable media.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 210	The removable media chosen by the Bidder must be commercially available.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 211	The Bidder must provide 1 main and 5 spare removable media devices.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 212	The MSIMS recording device must provide a visual indication to the Operator when 75% of its maximum recording capacity has been reached.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 213	The MSIMS recording device must provide the Operators with a time-slider feature to replay the recording of all mission data in a synchronized fashion at any point during the mission.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 214	The MSIMS must keep recording current data while the Operator is using the time-slider feature.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 215	The Operator must be able to exit the time-slider feature at any point and go back to live display.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				

REQ 216	The MSIMS recording device must provide the Operator with a means to pause, rewind, and fast forward all recorded data.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 217	The MSIMS must capture, encode and compress all audio files using current industry standards and formats to provide a high quality audio product.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 218	The MSIMS must capture, encode and compress all video in accordance with the current industry standards and the Motion imagery Standards Board (MISB) specifications including H.264, a modern transport mechanism and the video metadata.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 219	The MSIMS must have standardized functionality across the fleet to minimize time required to cross-train surveillance officers. The requirement details to standardize Operator input commands for the MSIMS are listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 220	The MSIMS must employ, at the minimum, the keyboard shortcuts listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 221	The MSIMS must provide a means for the Operator to create a Point Target at the current position of the aircraft with a button that is always available regardless of submenus active. This Point Target will have at a minimum the properties set by the system listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 222	For the Point Target above, the MSIMS must automatically display a georeferenced icon at the location of the aircraft position on the Moving Map, the SLAR and IR/UV sensor windows.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 223	The MSIMS must provide each Operator with the means to complete the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 224	The MSIMS must have a default display window configuration when the mission starts up.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 225	The MSIMS must provide a single key stroke to remove and redisplay each component window from the display.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 226	The MSIMS must provide a single button that will allow the Operator to maximize any active window to full screen view and back to the previous window size and location.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 227	The MSIMS must allow any displayed windows to be: a) Resized independently on any display; and b) Repositioned independently on each display.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 229	The MSIMS must indicate to the other MWS Operator when a requested function is currently in use if the other Operator already has full control of a specific shared functionality.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 230	The MSIMS must provide visible feedback to the Operator to indicate when a requested function is available, selected and unavailable.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 231	Within the MSIMS, selecting a sensor window will make that the active sensor displaying all related functionality for that particular sensor.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 232	When changing between primary sensors or Operators, the MSIMS must maintain the previous sensor's modes and selections.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				

REQ 233	The MSIMS must provide a means to enter manual navigation data including, at minimum, Altitude and Speed in order for the SLAR and IR/UV sensors to create a waterfall display when the aircraft is on the ground.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 234	The MSIMS must display the aircraft numeric information for each Operator as listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 235	The MSIMS must provide a separate window that displays all Properties about the Object selected in the List window.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 236	All Object Properties stored in the database for each Object type must be viewable in the Properties window when an Object is selected.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 237	The MSIMS must provide a means for the Operator to select and deselect the visibility of the List and Properties windows.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 238	The MSIMS must have a permanently displayed mission systems' status bar with coloured icons that change colour to indicate the status of the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 239	The colored status icons for the sensors listed in REQ 238 must have a means to indicate, at a minimum, the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 240	The MSIMS must provide a List window that allows elements of the system to be seen in list format including, at a minimum, the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 241	If the Operator hovers the cursor over the status menu icon, more detailed information about the status of that sensor must be displayed.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 242	The MSIMS alerts and errors must be displayed to the Operator including the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 243	The Bidder must provide a list of all error codes and their properties in the Operator's Manual.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 244	The MSIMS must, at mission start-up, prompt the Operator to enter Mission Information in the Summary Mission Information screen from a user-defined list of values consisting of, at a minimum, the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 245	The MSIMS must automatically assign a unique ID to each mission using the aircraft ID, the date to define the fiscal year and a sequential number.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 246	The MSIMS must provide the Operator with a means to enter mission timings in UTC to include, at a minimum, the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 247	The MSIMS must automatically calculate the items listed in the SOW as part of the Summary Mission Information.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 248	The MSIMS must provide the Operator with the means to display and edit mission summary information as detailed in REQ 244.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 249	The MSIMS must include a Moving Map display providing the Operator with a representation of the geographic area and the current position of the aircraft.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 250	The aircraft's position information must be displayed in the Moving Map in accordance with the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				

REQ 251	The aircraft position icon on the Moving Map must refresh at the same frequency as the data is received by the GPS.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 255	The Moving Map must provide the Operator with a means to select the orientation of the map to either True North up or Aircraft Heading up.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 257	The Moving Map window must provide the Operator with a means to complete the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 258	The Moving Map must provide an Operator-controlled Distance and Bearing tool to measure the distance and bearing between any two points on the map in nautical miles and degrees true.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 259	For each Object created in a mission, the MSIMS must automatically create and display a georeferenced icon on the Moving Map with the Object ID number. The color and type of icon must follow a standardized icon strategy which must be carried throughout the integration of all sensors.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 260	The Moving Map must store and recall digital map and chart databases including, at a minimum, the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 261	The Moving Map must provide continuous zoom from 1:60,000,000 to 1:500.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 262	The Moving map must display the Global coastline starting at 1:60,000,000 until other maps are displayed. If no greater resolution maps are available for a region, the Global Coastline will always remain displayed.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 263	The Moving Map must display the Terrestrial maps of North America starting at 1:1,000,000 with increasing detail as the Operator increases the zoom.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 264	The Moving Map must display the Open Street Maps at 1:40,000 with increasing detail as the Operator increases the zoom.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 265	The Moving map must display the Digital Marine Charts at 1:100,000 with increasing detail as the Operator increases the zoom.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 268	The MSIMS must provide the Operator with a means to continuously display the position, range and bearing from the aircraft to complete the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 269	The MSIMS must provide a means for the Operator to build SAR search patterns including, at a minimum, the following patterns: Parallel Line/Creeping Line, Expanding Square, Sector and Race Track. This requirement will be discussed at the PDR and CDR to ascertain proper track spacing and length.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 270	The MSIMS must provide a means to transfer the search pattern to the aircraft Flight Management System (FMS) so that it can be flown. This requirement will be discussed at the PDR and CDR to ascertain dependencies on the aircraft's FMS.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 271	The Moving Map must provide the Operator with the means to selectively display predefined overlays and maps including the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				

REQ 272	The MSIMS must provide the Operator with the means to overlay remote sensor imagery onto the Moving Map with correct geo-referencing and orientation including, at a minimum, the SLAR, IR and UV data.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 273	The remote sensor overlay functionality must include, but not be limited to the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 274	The MSIMS must provide a means for multiple strips of remote sensed imagery to be overlaid on the Moving Map at one time. Each sensor must be in a separate layer.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 275	The MSIMS must provide the Operator with a means to export overlaid remote sensed data to geospatial imagery file formats (i.e. geo-tiff and jpeg2000) with the precision parameters as detailed in section 6.2.8.5.1.1.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 276	The exported geospatial data must include all associated metadata and attribute data.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 277	The MSIMS must employ a strategy to differentiate all Objects by, at a minimum, their type and by the sensor or window in which they were created. These must be represented by the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 278	When each Object is created, the MSIMS must automatically display the icon with the Object ID number in georeferenced position on the Moving Map.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 279	For each Object in the MSIMS database, the MSIMS must automatically record the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 280	The MSIMS must list all mission Objects in a List window providing the Operator with a means to complete the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 281	The MSIMS must list all Objects in the List window with, at a minimum, the columns of information listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 282	The items listed in the SOW are the minimum Properties that must be displayed for every Object in the mission.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 283	All Objects must have an editable, free-text comments field accessible in the Object dialogue box and its contents displayed in the properties window when the Object is selected.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 284	When new Target, Graphical Aid and Incident Folder creation is initiated, the MSIMS must prompt the Operator to confirm creation is desired.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 285	The MSIMS must allow the Operator to selectively declutter individual Objects, information layers, symbology, or groups thereof, from any display.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 286	The MSIMS must allow the Operator to selectively redisplay decluttered individual Objects, information layers, symbology, or groups of contacts, to any display.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 287	The MSIMS must automatically generate Contacts from the AIS and Surveillance Radar systems.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 288	The MSIMS must automatically correlate Contacts from all sources when they represent the same physical object based on their position, speed and/or heading.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				

REQ 289	The MSIMS must provide the Operator with a means to manually correlate and de-correlate contacts.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 290	The MSIMS must provide the Operator with a means to selectively de-correlate individual contacts for display without affecting the actual correlation of the contact in memory.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 291	The MSIMS must automatically create an icon on the Moving Map for each Contact created.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 292	Each Contact automatically created by the MSIMS must have at least the attributes listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 293	When a new Contact is detected and icon is displayed on the Moving Map, the MSIMS must provide a visual indication to the Operator that it is a new Contact by flashing three times.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 294	The MSIMS must provide the Operator with a means to manually create Contacts with the properties listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 295	The MSIMS must provide a means for the operator to modify, at a minimum, the Contact properties listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 297	The MSIMS must have different visual icons to differentiate Surveillance Radar Contacts including, at a minimum the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 298	When the radar's TWS is the selected mode of operation for the radar, all TWS contacts, even when the radar is not currently selected for display, must be maintained.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 299	The MSIMS must provide the Operator with a means to create, at a minimum, the Point Targets and their associated properties listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 300	The MSIMS must provide the Operator with a means to update any Point Target's position using the sensors listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 301	When a Point Targets position has been updated, the MSIMS must calculate and display in the properties its direction and speed. The direction of travel between points of a contact must be displayed on the Moving Map as a line between them.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 302	The MSIMS must provide the Operator with a means to create Polygon Targets in the Moving Map, SLAR, Surveillance Radar, IR and UV windows.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 303	The MSIMS must provide a means for the Operator to designate and edit Polygon Targets as Oil or Generic.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 304	When a Polygon Target is created, the MSIMS must automatically record, at a minimum, the properties listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 305	The MSIMS must provide the Operator with a means to enter or select the data in the Oil Polygon Target dialogue box listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 306	For Oil Polygons, the MSIMS must calculate the volume of oil, in liters, based on the Oil Volume Calculation method selected by the Operator.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				

REQ 307	The MSIMS must provide the Operator with a means to edit the Oil Polygon parameters (i.e. percent coverage and percent of each category of oil). When changes are made in these parameters, the MSIMS must automatically recalculate and display the new parameters.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 308	The MSIMS must display, at a minimum, the information for all Polygon Targets in the Properties Window listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 309	The MSIMS must automatically assign a unique Object ID number to each image taken or captured in the mission. The Object ID number is a sequential number, starting at 1 for every object in the mission.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 310	The MSIMS must automatically assign an alphanumeric code to each image defining what type of Object it is and what sensor it was captured from. For example, SCI would mean that the object is a still camera image.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 311	The MSIMS must automatically create and display an icon on the Moving Map at the aircraft location where the image was taken along with the Object ID number.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 312	The MSIMS must store and manage all images in a manner that allows the items listed in the SOW to be conducted.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 313	When an image is opened in the MSIMS, an image dialogue box must open providing the Operator functionality listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 314	All images captured in the MSIMS must be saved in current industry standard formats.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 315	The MSIMS must provide the Operator with a means to convert full resolution images and make a compressed copy for transfer over SATCOM.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 316	When an image is captured, the MSIMS must automatically save, at a minimum, the properties listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 317	When an image is selected, the MSIMS must display all the properties associated to it in the properties window including, at a minimum, the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 318	The MSIMS must provide the Operator with a means to edit copies of images within the mission.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 319	The MSIMS must provide an email function button from the image dialogue box that will automatically open a new email message with the selected image(s) attached.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 322	The MSIMS must provide a single button selection that allows the Operator to take a screenshot of the windows listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 323	The MSIMS must store all screenshot images in an Image database with, at a minimum, the information at the time the image was captured listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 324	The MSIMS must provide a means for the Operator to adjust the sensor window size to control the resolution of the screenshot images taken within the system. Enabling the operator to enlarge the sensor window will equate to an image with better resolution.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				



REQ 325	When images are captured from the MX15HDi EO/IR Camera Systems' video, the still images must automatically be annotated by the MSIMS with, at a minimum, the information listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 326	The MSIMS must provide live video viewing and recording from multiple video feeds from the MX15HDi EO/IR Camera System including EOW, EON and IR. The selection of which video feed(s) to record from must be selectable by the Operators.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 327	The MX15HDi EO/IR Camera Systems' video must be able to be simultaneously recorded to the MSIMS database and to the GFE video recorder but must be controlled separately.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 328	The MSIMS must provide the Operator with a means to start and stop a video recording at each console.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 329	The status of the video recording must be shown on the system status bar including at a minimum, the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 330	For each video recording the MSIMS must automatically complete the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 331	The recorded video must automatically be annotated by the MSIMS with the information along the top of each frame of the recorded image listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 332	When a video Object is selected the MSIMS must display, at a minimum, the properties in the properties window listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 333	The MSIMS must digitally index all video recordings with aircraft position and line-of-sight of MX15HDi EO/IR Camera System allowing for video playback in Moving Map display.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 334	When video from the MX-15HDi is played back, the position of the aircraft and line of sight of the MX-15HDi for each frame of the video must be displayed simultaneously on the Moving Map.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 335	The MSIMS must provide a means to select which video recording to playback that must include, at a minimum, the options listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 336	The Video Recordings Playback list in the MSIMS must display at a minimum the information listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 337	The MSIMS must define a maximum video recording file size. When the recording meets that file size an alert must be displayed warning the Operator and a new video file must automatically begin recording with a new Object ID number.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 338	The MSIMS must playback recorded video using the functionality listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 339	Still images captured during video playback must to be annotated with at least the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				

REQ 340	The MSIMS must provide functionality for video editing to allow the Operator to clip short video segments in flight to enable video sharing over the SATCOM or cellular either streaming or email of video file.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 341	The MSIMS must provide the Operator with a means to make a video clip from any video recorded on the mission system during the times listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 342	The MSIMS must provide the Operator with a means to set the start and end frame of a video clip both visually and by time.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 343	The MSIMS must provide the Operator with the estimated size of the video clip before the final video clipping function is executed.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 344	The MSIMS must not alter the original video recording both during and after the video editing process.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 345	The MSIMS must create a video clip as new file with a unique Object ID number.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 346	When a video clip is being made during a live mission, the MSIMS must annotate the video with, at a minimum, the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 347	When a video clip is being created during post-processing the annotation strip must display POSTPROCESS in the aircraft parameters field.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 348	The MSIMS must provide the Operator with a means to send a video clip(s) using the email system with the selection of a single button or function.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 349	The MSIMS must provide the Operator with a means to start and stop live-streaming of video with the required functionality as listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 350	The Streaming Video must be able to be viewed by a commercially available laptop or tablet using a user friendly app or software. The software must be accessible with a user name and password which will be controlled by the NASP system administrator.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 351	To increase and decrease the amount of data in the video feed, Canada must be able to make adjustments to the video parameters listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 353	The MSIMS must provide the Operator with the means to make digital audio recordings of the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 354	The MSIMS must provide the Operator with the means to playback a recorded audio file during the live mission and during Post-Processing.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 355	The MSIMS must provide the Operator with the playback controls listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 356	When the Operator records audio, the MSIMS must automatically complete the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 357	The MSIMS must provide a means to select which audio recording to playback that must include, at a minimum, the options listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				

REQ 358	The MSIMS must annotate and store audio recordings with, at a minimum, the information listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 359	When audio recording is selected, the MSIMS must display, at a minimum, the properties in the properties list listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 360	The MSIMS must provide a means to adjust the audio record volume by GUI and dial.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 361	When audio recordings are being made the MSIMS must show the record volume as a histogram. When audio volume is adjusted these adjustments must be shown in the histogram.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 362	The status of the audio recording must be shown on the system status bar including at a minimum, the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 363	The MSIMS must provide the Operator with the means to manually create, at a minimum, the Graphical Aids in the mission system listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 364	When a Graphical Aid is created, the MSIMS must automatically record with it, at a minimum, the properties listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 365	When a Graphical Aid is selected, the MSIMS must display, at a minimum, all of its properties including, at a minimum, the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 366	All Graphical Aids created by the Operator in any sensor or window must be automatically displayed on the Moving Map with the Object ID number.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 368	The MSIMS must provide the Operator with a means to create Incident Folders with the functional requirements listed in the SOW.		The Bidder must demonstrate in their proposal, with clear references to substantiating documentation such as operator's manuals, how this requirement is understood and their solution to address it, as detailed in the SOW.				
REQ 369	The MSIMS must provide the Operator with a means to select the Objects to be added to an Incident Folder from a list of all Objects in the mission.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 370	Within the Incident Folder dialogue box, the MSIMS must provide a list of Objects to select that is filterable by Object type.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 371	When an Incident folder is selected, the MSIMS must display, at a minimum, the following properties in the properties window:		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 372	Incident Folders within the MSIMS must be emailable by using a single button selection that will automatically open a new email message with all the Objects and their associated data attached.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 373	When an Incident Folder is selected to be emailed, the MSIMS must provide the Operator with a means to manually add and remove attachments from the email.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 374	The MSIMS must report the contents of each Incident Folder as a detailed list in the Mission Report. The Mission Report will be defined as part of the Critical Design Review.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 375	For numeric data displayed in the Object List, the time must be displayed as hour and minute and the position (latitude and longitude) must be displayed as degrees and minutes.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				

REQ 376	For numeric data reported on all annotation strips, date and time must be displayed as year, month, day, hour, minute, second including, at a minimum, annotation of data from the sensors listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 377	For numeric data displayed on all annotation strips, position (latitude and longitude) must be reported to a minimum precision of the 2nd decimal place of decimal minutes (i.e. 54 00.01) including, at a minimum, annotation of the sensor data listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 378	For all reported and exported data, the date and time must include the year, month, day, hour, minute, second.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 379	For all reported and exported data, position (i.e. latitude/longitude) must be reported to a minimum precision of the 2nd decimal place of decimal minutes (i.e. 54 00.01).		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 380	The MSIMS must support Operator defined report templates as defined by the Sample NASP Report in Appendix C.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 381	The MSIMS must provide the Operator with a means of customizing report templates.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 382	The MSIMS must provide the Operators with a means of compiling reports in near real time during the mission including any data collected by the MSIMS.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 383	The MSIMS must provide the Operator with, at a minimum, the Report functionality listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 384	The MSIMS must provide the Operator with a means of exporting reports in, at a minimum, the formats listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 385	All Report functionality must also be available to the Operator on the Ground Station using any data collected during a mission.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 386	The MSIMS must provide the Operator with a means to import groups of Objects including points, lines, polygons, waypoints and routes to the mission during both live missions and during Pre- and Post-processing mission data in the following formats: csv and txt.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 387	The MSIMS must provide the Operator with a means to import Objects from a text file into the Moving Map. When used, the MSIMS will automatically create new Objects in the mission system each with its own unique ID. At a minimum, the Windows keyboard shortcuts listed in the SOW will be used to import these text based Objects.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 388	The MSIMS must provide a means to import and create Objects including points, lines, polygons, waypoints and routes into the mission from KML, SHP and geoJSON formats.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 389	When Objects are imported from KML, SHP and geoJSON, the MSIMS must automatically create each as a new Object in the mission system with all the associated properties.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				

REQ 390	The MSIMS must provide a means for the Operators to import Custom Layers for display on the Moving Map during a live mission in, at least, the file formats listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 391	The MSIMS must provide the Operator with a means to import external geospatial imagery as a Custom layer during an active mission includingat a minimum the following formats: JPEG2000 and GeoTIFF.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 392	The MSIMS must provide the Operator with a means to import Custom Layers and Objects using, at a minimum, the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 393	The MSIMS must provide the Operator with a means to selectively control the display and removal of Custom Layers.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 395	The MSIMS must broadcast line scan sensor (i.e. SLAR and IR/UV) imagery and metadata over the aircraft LAN via one distinct UDP port for each sensor. The broadcast must adhere to the standard defined in (APPENDIX B Annotation Datagram).		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 396	The MSIMS must provide the Operators with a means to export selected Objects to geospatial formats KML and SHP including the Objects listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 397	A dialogue box for exporting geospatial Objects must provide a means to search the geodatabase by type of Object.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 398	All attributes and properties for each Object must be included in the geospatial data export.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 399	The MSIMS must provide the Operator with a means to email exported KML and SHP files from the export dialogue box.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 400	The MSIMS function to email exported KML and SHP must automatically open a new email message with the selected file(s) attached.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 401	The MSIMS must provide the Operator with a means to export the aircraft’s flight track to KML and SHP file formats. The flight track must be exported as points at 0.16 Hz (every 6 seconds) with, at a minimum, the parameters for each point listed in the SOW.		The Bidder must demonstrate in their proposal, with clear references to substantiating documentation such as operator's manuals, how this requirement is understood and their solution to address it, as detailed in the SOW.				
REQ 402	The MSIMS must provide the Operator with a means to export the flight track at any point during the mission to include all points up to that moment in time.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 405	The MSIMS must provide a means for the Operator to transmit data in flight using the SATCOM, 3G, 4G, or LTE networks to include, at a minimum, the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 406	The MSIMS must automatically compress large imagery for transmission over the SATCOM, 3G, 4G, or LTE networks.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 408	The MSIMS must automatically compress MX15HDi video maintaining good quality imagery while allowing for live streaming with, at a minimum, the transfer rates listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				

REQ 409	The MSIMS must provide an email system for the Operator to compose, send, receive, retrieve, view and automatically send emails.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 410	The MSIMS system must have an email program with, at a minimum, the functionality listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 411	The MSIMS must provide an automatic email system that generates and sends specified emails at set intervals (i.e every 5 minutes) set by the operator to a predefined distribution list(s), also set by the Operator, that includes, at a minimum, the items listed in the SOW.		Response requires a brief description from the bidder demonstrating that the requirement is understood and bidder's commitment to address it, as detailed in the SOW.				
REQ 413	One Ground Station must be supplied.		Not evaluated as part of the bid				
REQ 414	The Ground Station must be the latest generation laptop computer to include, at minimum, the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 415	The Ground Station must be capable of importing, replaying, analyzing, printing and exporting selected segments of the entire mission data post flight.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 416	The Ground Station must replicate all functionality and display parameters as the MSIMS on the aircraft.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 417	As Ground Station lacks aircraft peripherals to navigate the MSIMS, all mission navigation must be done using mouse and keyboard shortcuts that replicate those available on the aircraft.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 418	The Ground Station must be able to write data to external storage device which includes DVD, USB, External Hard drive, compact flash drive.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 419	All Report functionality available on the aircraft must be available to the Operator on the Ground Station using any data collected during a mission including, at a minimum, the items listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 420	The Ground Station must provide the Operator with a means of exporting reports in, at a minimum, the formats listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 421	The Ground Station must provide the Operator with, at a minimum, the pre-processing functions listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 422	The Ground Station must provide the Operator with, at a minimum, the Post-Processing functions listed in the SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				

REQ 423	Post-Processing must be available on the aircraft and on the ground station.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 424	The Bidder must upgrade three of Transport Canada’s MSS6000 Mission Systems, TC001 in Moncton, NB, TC009 in Richmond, BC and TC014 in Ottawa, Ontario to integrate the MX15Hdi in accordance with REQ 93 to REQ 107 of this SOW.		<p>The Bidder must demonstrate in their proposal, with clear references to substantiating documentation such as operator's manuals and Interface Control Documents, how this requirement will be met considering the existing IP rights rest with the present service provider of the system (ST Airborne systems). The bidder must clearly indicate that they understand the magnitude of these upgrades and their solution to address it, as detailed in the SOW.</p> <p>The bidder <b>must</b> provide evidence that they have secured an agreement in principle with the IP holder (ST Airborne Systems) on IP Holder Letterhead that they can secure the appropriate IP rights to upgrade the existing systems. At the end of the day, there must be no doubt that the prime bidder has secured the IP data rights, and licences and they can contract this portion of the work to ST Airborne Systems.</p>				
REQ 425	Alternatively, relating to REQ 424, if it is more cost effective , the Bidder may propose to replace the three existing MSS6000 mission systems with the solution being provided within this contract which integrates and utilizes all existing sensors, meeting the requirements within this SOW and integrates the MX15Hdi in accordance with REQ 94 to REQ 107 of this SOW.		If the Bidder is proposing a new solution versus upgrading of existing systems, then the bid must demonstrate, with clear references to substantiating documentation such as operator's manuals, how this requirement will be met. The bidder's strategy must clearly lay out the plan to provide a new solution is being offered. The bidder must clearly indicate that they understand the magnitude of these upgrades and their solution to address it, as detailed in the SOW. If a new mission is being proposed, the bidder must provide examples of three previous similar work completed within the last ten years from the closing date of the RFP.				
REQ 427	The existing mission systems must be able to live stream HD video via the SATCOM or cellular to recipients on the ground using the same streaming video solution across all four TC NASP aircraft.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 428	The existing mission systems must be able to view previously recorded video both on the aircraft and on the MSIMS Ground Stations.		Response requires a brief description from the bidder demonstrating that the requirement is understood and bidder’s commitment to address it, as detailed in the SOW.				

REQ 429	Canada currently has four ground stations in use. The software on these four Ground Stations must be upgraded / modified to incorporate HD video while retaining all current functionality of the system.		<p>The Bidder must demonstrate in their proposal, with clear references to substantiating documentation such as operator's manuals and Interface Control Documents, how this requirement will be met considering the existing IP rights rest with the present service provider of the system (ST Airborne systems). The bidder must clearly indicate that they understand the magnitude of these upgrades and their solution to address it, as detailed in the SOW.</p> <p>The bidder must provide evidence that they have secured an agreement in principle with the IP holder (ST Airborne Systems) on IP Holder Letterhead that they can secure the appropriate IP rights to upgrade the existing systems. At the end of the day, there must be no doubt that the prime bidder has secured the IP data rights, and licences and they can contract this portion of the work to ST Airborne Systems.</p>				
REQ 430	<p>Alternatively, relating to REQ 429, if it is more cost effective, the Bidder may propose to replace the four existing MSS6000 Ground Stations with the solution being provided within this contract, without sacrificing any functions of the ground stations by meeting the requirements within this SOW and integrates the MX15Hdi in accordance with REQ 414 to REQ 420.</p> <p>Note: TC has one ground station with each aircraft and one at HQ, for a total of four.</p>		If the Bidder is proposing a new solution versus upgrading of existing systems, then the bid must demonstrate, with clear references to substantiating documentation such as operator's manuals, how this requirement will be met. The bidder's strategy must clearly lay out the plan to provide a new solution is being offered. The bidder must clearly indicate that they understand the magnitude of these upgrades and their solution to address it, as detailed in the SOW. If a new mission is being proposed, the bidder must provide examples of three previous similar work completed within the last ten years from the closing date of the RFP.				
REQ 431	All deliverables must come with certificates of conformity to allow Canada to certify the provided equipment as part of the installation at a later date.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 432	The Mission Work Station must come with airworthiness certification. (i.e. green tagged)		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 433	All system operator manuals, maintenance manuals and other documentation as per requirements of this SOW must be provided digitally as well as hard copy for training purposes. 10 Operator manuals and maintenance manuals must be provided in hardcopy as part of the contract.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 434	All training materials must be provided digitally in MS PowerPoint and .PDF to Canada to allow for in house training.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 435	The Bidder must include an outline of the test plan objectives for evaluation by the TC personnel and the technical authority.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				



REQ 436	The Bidder must adhere to all applicable Canadian Aviation Regulations for any system maintenance and repairs.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 437	The Bidder must provide access to the acceptance test facilities for all systems to allow Canada or it's designate(s) to witness and participate in the system end-to-end functionality during factory acceptance testing.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 438	End-to-end tests must demonstrate real or simulated targets detected, processed, displayed and recorded.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 439	End-to-end tests completed in the factory must demonstrate all the mandatory and rated requirements of this SOW.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 440	The details of the Factory Acceptance Test must be specified in the Project Management Plan.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 441	If the Surveillance Radar is not delivered with the MSIMS, all test plans must include a provision for follow-on Factory Acceptance Testing of the Surveillance Radar.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 442	The Bidder must submit a Pre-flight Ground Acceptance Test Plan that will be conducted on board the TC Dash 8 aircraft prior to the Flight Acceptance test. The timeline associated with this test is unknown at this time. It will only occur once TC-ASD has finalized the installation/integration of the MSIMS and associated mission sensors on the Dash 8.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 443	The Pre-flight Ground Acceptance Test Plan must indicate that the test, when conducted, will demonstrate the end-to-end system is fully serviceable in a powered-up mode.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 444	If the Surveillance Radar is not delivered with the MSIMS, all test plans must include a provision for follow-on Pre-Flight Ground Acceptance testing of the Surveillance Radar to be conducted at facilities within Canada.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 445	The FLT-AT will follow successful completion of the Pre-FLT-GAT and when any required airworthiness certification has been acquired. The timeline associated with this test is unknown at this time. It will only occur once TC-ASD has finalized the installation of the MSIMS and associated mission sensors on the Dash 8.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 446	The FLT-AT must indicate that the test, when conducted, would demonstrate the end-to-end system is fully serviceable. Three successful operational style missions must be completed as part of the FLT-AT.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 447	If glitches are observed in the system during the FLT-AT, then they must be fixed and the test starts over with three more successful operational style missions.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 448	If the Surveillance Radar is not delivered at the same time with the MSIMS, all test plans must include a provision for follow-on Flight Acceptance testing of the Surveillance Radar during three successful operational style missions.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				

REQ 449	The Bidder must provide installation and testing support during the commissioning of the system in the aircraft. The Bidder must ensure that a responsible delegate is present at the designated facility for the post-installation Pre-flight Ground Acceptance Test, and Flight Acceptance Test in order to support functionality verification and any system troubleshooting.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 450	If the Surveillance Radar is not delivered with the MSIMS then the Bidder must ensure that a responsible delegate is present at the designated facility for the post-installation Pre-flight Ground Acceptance Test, and Flight Acceptance Test in order to support functionality verification and any system troubleshooting.		Not evaluated as part of the bid, will be verified for contractual acceptance as per the SOW.				
REQ 451	Upon contract award, the Bidder must deliver a detailed project management plan (PMP) and a detailed system functionality description and architecture document for review and approval by Canada. The Project Plan must be in accordance with the items listed in the SOW.		The Bidder must provide Project Management Plan as detailed in the SOW				
REQ 453	<p>The Bidder must provide a Project/Work Plan with the bid submission. The detailed Project/Work Plan, as per the Guideline in section 12.3, must include all tasks and deliverables specified in this SOW, projected on a timeline that spans from contract award to delivery.</p> <p>As a minimum, this Project Work Plan must include the number of days to complete the following activities, and must substantiate how the Contractor will adhere to the provided timelines for the work detailed in the SOW.</p>		The Bidder must provide Project / Work Plan as detailed in the SOW				
REQ 454	As part of the PMP, the Bidder must propose a schedule of meetings and reviews, which will include at a minimum the milestone meetings outlined in the SOW. The milestones dates will be completed upon contract award and will assist in completing the basis of payment:		Not evaluated as part of the bid.				
REQ 455	Progress Report Meetings - On a bi-weekly basis, or as requested by TC ASD, the Bidder must prepare and chair progress report meetings via video or teleconference. The intent of the progress meetings is to provide TC ASD and the Contracting Authority with a status update on the work performed to date and to facilitate a verbal information exchange. The Bidder is responsible for ensuring that all necessary representatives are available to respond to any questions from TC ASD AMO or AEO.		Not evaluated as part of the bid				
REQ 456	Monthly Progress Report - On a monthly basis, the Bidder must submit a progress report of the aircraft's upgrade, showing the percentage of work completed and the expected completion date. The report must be submitted electronically and in the format as indicated in the SOW.		Not evaluated as part of the bid.				

REQ 457	Systems Requirement Review (SRR) – Following contract award, the purpose of the SRR is to outline the expectations and to clarify details relevant to the tasks to be completed, the PDR and the CDR meetings. The SRR will be carried out in in the form of telephone/video conference calls.		Not evaluated as part of the bid.				
REQ 458	Preliminary Design Review (PDR) - The purpose of the PDR is to review the conceptual design and to discuss constraints and scope of adjustments to ensure that the planned technical approach will meet the TC ASD requirements. The PDR will be carried out in person at an agreed upon location.		Not evaluated as part of the bid.				
REQ 459	Critical Design Review (CDR) - The purpose of the CDR is to review the detailed design. The detailed design must include, specifications, descriptions of interoperability with existing systems, etc. The detailed design must also include specific details of how the design will be executed (schedules, sub-Bidders, etc). The detailed design should include as much information as possible as it will serve as the basis for the implementation phase. The detailed design must be approved by TC ASD prior to the commencement of the work. The CDR will be carried out in person at an agreed upon location. The Bidder will present their detailed design at the CDR meeting in Bidder format. TC ASD will accept the CDR as complete only when it has been demonstrated that each of the exit criteria listed in the SOW are satisfied.		Not evaluated as part of the bid.				