Ministry of Defence

[redacted]

Defence Equipment and Support
Maple 0a, #2043
MOD Abbey Wood
Bristol BS34 8JH

[redacted]

[redacted]

Your Reference:

Our Reference:
FOI2014/04144
Date:
18 September 2014

Dear [redacted]

Your email dated 31st July 2014 requested the following information under the Freedom of Information Act (FOIA) 2000:

1. The background and detail data for the scoring and the narrative commentary behind the DEFFORM 158B issued to Orolia in the attached email. This should include details covering the assessment of the individual document submissions made in our Tender for contract APSCM1/0015.

2. As item 1 above, but for the Ferranti Tender response to the Authority ITT APSCM1/0015.

3. As item 1 above, but for all other organisations that provided a Tender response to the Authority ITT APSCM1/0015.

In your email dated 8th September 2014 you withdrew Question 1 of your original request. It was understood that the full debrief pack for Oriola Ltd would be provided as routine commercial business.

I can confirm that the Ministry of Defence (MOD) holds information relevant to Question 2 your request. The MOD does not hold information relevant to Question 3 of your request. The remaining bid was assessed as non-compliant and, therefore, in accordance with the Assessment Scheme, a full tender assessment was not conducted.

Our letter dated 29th August 2014 advised that some of the information may fall within the scope of qualified exemption S.43 (information that constitutes a trade secret or its disclosure would prejudice commercial interests) and, as such, a Public Interest Test would need to be undertaken to determine whether, in all the circumstances of the case, the public interest in maintaining the exemption outweighs the public interest in disclosure. After due consideration, it was determined that there were no grounds for withholding any of the information sought under Question 2 of your request and it is therefore attached without redaction.

If you are not satisfied with this response or you wish to complain about any aspect of the handling of your request, then you should contact me in the first instance. If informal resolution is not possible and you are still dissatisfied then you may apply for an independent internal review by

contacting the Information Rights Compliance team, 1st Floor, MOD Main Building, Whitehall, SW1A 2HB (e-mail CIO-FOI-IR@mod.uk). Please note that any request for an internal review must be made within 40 working days of the date on which the attempt to reach informal resolution has come to an end.

If you remain dissatisfied following an internal review, you may take your complaint to the Information Commissioner under the provisions of Section 50 of the Freedom of Information Act. Please note that the Information Commissioner will not investigate your case until the MOD internal review process has been completed. Further details of the role and powers of the Information Commissioner can be found on the Commissioner's website, http://www.ico.gov.uk.

Yours sincerely,

[redacted]

Tender Debrief Package

Vantage Applications Limited

DE&S APS PT
EPLB
Debrief Pack for the Ferranti Tender

An Allyance Partner Company

ALLYANCE TECHNICAL SOLUTIONS

www.allyance.co.uk

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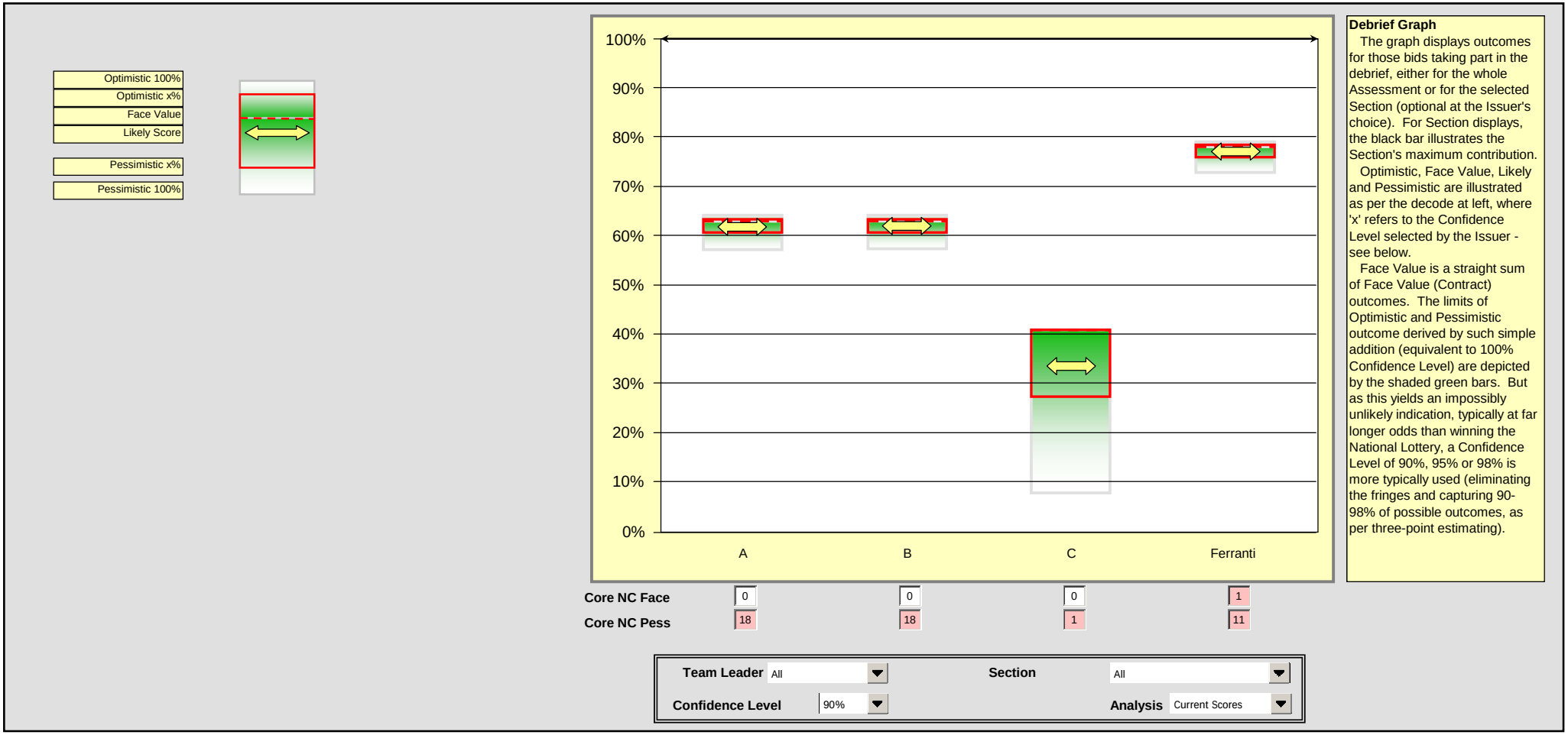
Document Prepared by

Contents

Summary

The electronic variant of the material that follows is presented in a non-editable pictorial format. It is presented to assist Tenderers with an understanding how they fared (either in isolation or in comparison to other Tenderers) and for no other purpose. The level of detail and the degree to which outputs have been anonymised (i.e. concealment of competitor identities) are matters of choice for the issuing authority.

Outcome - All Sections; bounded Confidence Level (red rectangle) = 90%



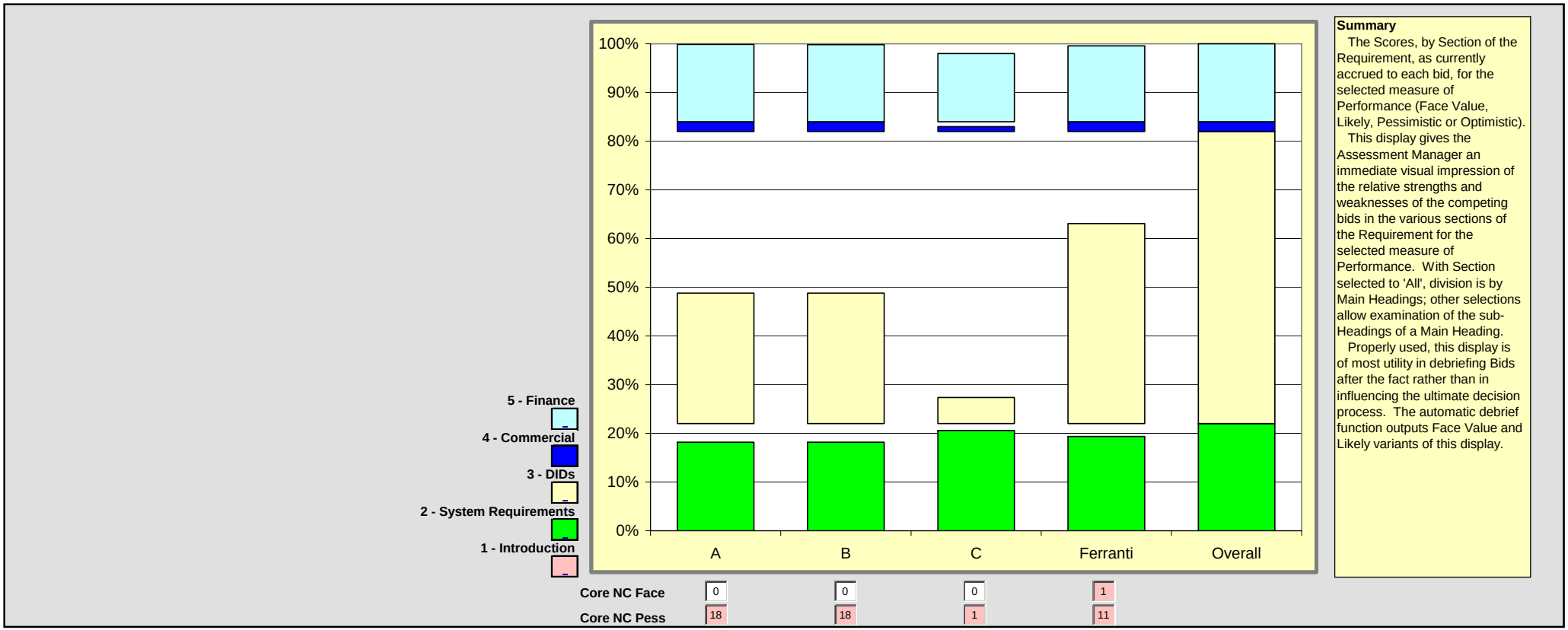
Debrief Graph

The graph displays outcomes for those bids taking part in the debrief, either for the whole Assessment or for the selected Section (optional at the Issuer's choice). For Section displays, the black bar illustrates the Section's maximum contribution.

Optimistic, Face Value, Likely and Pessimistic are illustrated as per the decode at left, where 'x' refers to the Confidence Level selected by the Issuer - see below.

Face Value is a straight sum of Face Value (Contract) outcomes. The limits of Optimistic and Pessimistic outcome derived by such simple addition (equivalent to 100% Confidence Level) are depicted by the shaded green bars. But as this yields an impossibly unlikely indication, typically at far longer odds than winning the National Lottery, a Confidence Level of 90%, 95% or 98% is more typically used (eliminating the fringes and capturing 90-98% of possible outcomes, as per three-point estimating).

Face Value (All)



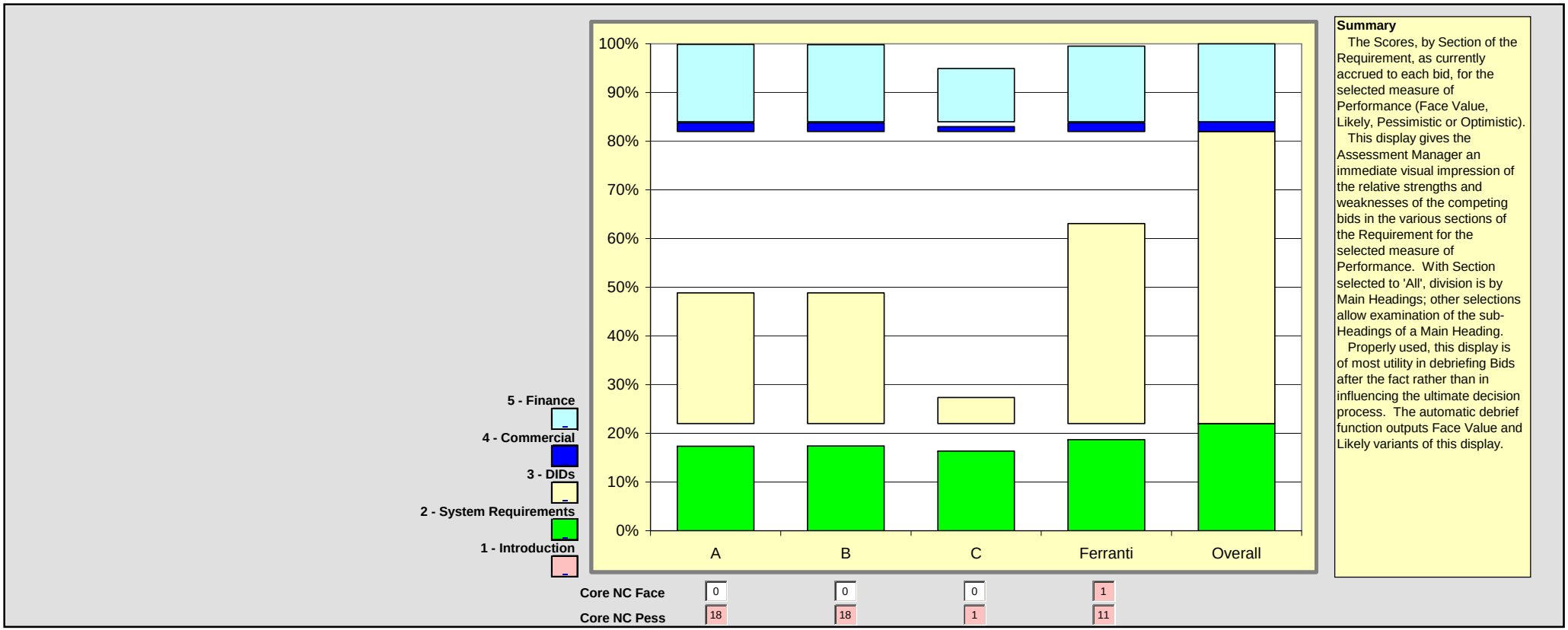
Summary

The Scores, by Section of the Requirement, as currently accrued to each bid, for the selected measure of Performance (Face Value, Likely, Pessimistic or Optimistic).

This display gives the Assessment Manager an immediate visual impression of the relative strengths and weaknesses of the competing bids in the various sections of the Requirement for the selected measure of Performance. With Section selected to 'All', division is by Main Headings; other selections allow examination of the sub-Headings of a Main Heading.

Properly used, this display is of most utility in debriefing Bids after the fact rather than in influencing the ultimate decision process. The automatic debrief function outputs Face Value and Likely variants of this display.

Likely (All)



Summary

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Properly used, this display is of most utility in debriefing Bids after the fact rather than in influencing the ultimate decision process. The automatic debrief function outputs Face Value and Likely variants of this display.

Table of Assessment Inputs (Ferranti)

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
1		**Introduction**							0.00%	0.00%	0.00%		**0.00%**	
1.01	1099	*The criteria within this ASD define the parameters within which the MoD seeks to explore and delimit the Performance and Compliance boundaries of the delivered EPLB programme. The best achievable System will be that offering the optimal combination of Performance, Cost, Schedule and Risk against the weighted criteria openly expressed herein, whilst meeting the entirety of the Core Requirement (comprising all Key, Mandatory and Constraint criteria).*												
1.02	1101	All elements of the Compliance and Performance as bid herein that are placed on Contract Shall be satisfied collectively, rather than in isolation, except where such Compliance or Performance is mutually exclusive.	C	C/NC	Dev	NC	C		0.00%	0.00%		bidders have claimed compliance with installed performance, for example, on visual indicators.	0.00%	
2		**System Requirements**							15.23%	19.39%	20.43%		**22.00%**	
2.1		**System Requirements/General Requirements and Architectu**							3.18%	3.50%	3.75%		**3.75%**	
2.1.1		**System Requirements/General Requirements and Architecture/Intr**							0.00%	0.00%	0.00%		**0.00%**	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.1.1.01	0057	*The purpose of EPLB will be a supportable, overt, global capability to enable SAR providers to find and rescue aircrew(and associated passengers) who have abandoned their aircraft in an emergency.*												
2.1.1.02	**0051**	*EPLB will be the replacement for in-service and interim personal location beacons for UK military aircrew, ie Navy, Army, RAF and any civilian personnel crewing aircraft operated on behalf of UK MoD.*												
2.1.1.03	0184	*There is no specific requirement for EPLB to be used by passengers.*												
2.1.1.04	0054	*The primary functions of EPLB will be overt alerting, position detection and providing overt homing signals.*												
2.1.1.05	0185	*The EPLB procurement will provide UK MoD with operational beacons, antennas and other ancillaries, plus related spares, support equipment such as training beacons, and information.*												

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.1.1.06	0052	*EPLB will be one of the UK elements of the international overt SAR capability, which is a system of systems centred on the alert detection and dissemination functions provided by Cospas-Sarsat (C-S).*												
2.1.1.07	0056	*Cospas-Sarsat Mission Control Centres (MCCs) distribute distress alerts to SAR service providers world-wide, who then carry out the emergency recovery missions using local resources.*												
2.1.2		**System Requirements/General Requirements and Architecture/Defi**							0.00%	0.00%	0.00%		**0.00%**	
2.1.2.1		**System Requirements/General Requirements and Architecture/Definitio**							0.00%	0.00%	0.00%		**0.00%**	
2.1.2.1.01	**0483**	*The system in-service period is planned to be 15 years.*												
2.1.2.1.02	0087	*The types of EPLB user role are introduced in Sections 1.4 and 1.5. Reference to "Users" indicates any or all users of any role; "the User" indicates an individual in any role. Likewise, reference will be made to "Operational Users" and "Support Users".*												
2.1.2.2		**System Requirements/General Requirements and Architecture/Definitio**							0.00%	0.00%	0.00%		**0.00%**	
2.1.2.2.01	0193	*"Integration", "integrate" and "integrated" refer to designing the system or components to connect, fit or work with other systems or components.*												

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.1.2.2.02	0215	*"Installation" and "installed" (in AEA or SE) refer to being held by, connected to, fitted in, worn with or operated from the items of AircrewClothing and/or Life Rafts specified in this SRD.*												
2.1.2.2.03	0220	*Unless stated explicitly, installation includes the operations of de- and reinstallation as well as initial installation and the state of remaining installed.*												
2.1.2.3		**System Requirements/General Requirements and Architecture/Definitio**							0.00%	0.00%	0.00%		**0.00%**	
2.1.2.3.01	0241	*"Activation" refers to causing EPLB to do all of (a) power on, (b) warm up, (c) deploy its antenna(s) if necessary, and (d) to start transmitting alerts, detecting its position and transmitting homing signals.*												
2.1.2.3.02	0455	*"Warm-up" or "warm-up time" refers to the system preparation period from power off to full operation.*												
2.1.2.3.03	0574	*"Full operation" refers to all active functions of the system being powered up and working as intended.*												
2.1.2.3.04	0242	*"Arming" refers to making EPLB ready to activate manually, or ready to activate automatically providing the automatic activation method has been enabled.*												

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.1.2.3.05	0247	*"Enabling" the automatic activation method refers to configuring an EPLB so that it can be activated automatically, providing it is armed.*												
2.1.2.3.06	**0461**	*Antenna "deployment" refers to one or all antenna(s) being in, or being moved into, their operating positions, as necessary to achieve their required performance.*												
2.1.2.4		**System Requirements/General Requirements and Architecture/Definitio**							0.00%	0.00%	0.00%		**0.00%**	
2.1.2.4.01	0208	*"Operational requirements" refers to the operational aspects of general requirements, operational functionality and performance, characteristics and constraints.*												
2.1.2.4.02	0525	*"Training requirements" refers to the training aspects of general requirements, operational and support functionality and performance, characteristics and constraints.*												
2.1.2.4.03	0209	*"Maintenance requirements" refers to the maintenance aspects of general requirements, support functionality and performance, characteristics and constraints.*												
2.1.3		**System Requirements/General Requirements and Architecture/Ope**							0.00%	0.00%	0.00%		**0.00%**	
2.1.3.01	0053	*EPLB will be used world-wide, outside areas of combat operations.*												
2.1.3.02	0058	*EPLB will be used in any position (geospatial location), environment or weather.*												

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.1.3.03	0059	*EPLB will be used as soon as reasonably practicable during or following aircraft abandonment in an emergency, to optimise the likelihood of survival and rescue.*												
2.1.3.04	0189	*EPLB will have a simple manual interface, and most User interactions with EPLB will be manual.*												
2.1.3.05	0187	*EPLB will be activated automatically following ejection.*												
2.1.3.06	0055	*EPLB will be used alongside examples of itself and potentially any other type of emergency beacon or transmitter fitted to aircraft or survival equipment.*												
2.1.4		**System Requirements/General Requirements and Architecture/Ope**							0.00%	0.00%	0.00%		**0.00%**	
2.1.4.01	**0044**	*The role of CrewMember will be taken by personnel directly tasked with piloting, navigating or operating systems or services on board UK military aircraft.*												
2.1.4.02	0188	*CrewMembers will be issued with or have emergency access to EPLB.*												
2.1.4.03	0191	*CrewMembers will be the primary operators of EPLB in a survival situation.*												
2.1.4.04	0045	*The role of Non-CrewSurvivor will be taken by aircraft passengers or other persons caught up in a survival situation involving EPLB.*												

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.1.4.05	0049	*The role of Rescuer will be taken by SAR personnel in training with EPLB or in a survival situation involving EPLB. Rescuers will operate SAR Assets.*												
2.1.5		**System Requirements/General Requirements and Architecture/Sup**							0.00%	0.00%	0.00%		**0.00%**	
2.1.5.01	0079	*The role of Instructor will be taken by personnel delivering training on EPLB.*												
2.1.5.02	0077	*The role of Maintainer will be taken by personnel involved in servicing or repairing EPLB.*												
2.1.6		**System Requirements/General Requirements and Architecture/Inte**							0.00%	0.00%	0.00%		**0.00%**	
2.1.6.01	0201	*The role of Aircrew Clothing will be taken by the Life Saving Jackets (LSJ), Load Carrying Jerkins (LCJ) and Body Armour Load Carrying Systems (BALCS) listed at Part 4.*												
2.1.6.02	0202	*The role of Life Raft will be taken by the types listed at Part 4.*												
2.1.6.03	0047	*The role of C-S Satellite System will be taken by the space segment of Cospas-Sarsat.*												
2.1.6.04	0272	*The role of GNSS Source will be taken by the space segment of global navigation satellite systems (GNSS).*												
2.1.6.05	0048	*The role of SAR Coordinator will be taken by the ground segment of Cospas-Sarsat and all agencies involved in managing EPLB data, handling alerts and providing SAR services.*												

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.1.6.06	0050	*The role of SAR Asset will be taken by all declared aircraft, vessels, vehicles and equipment stations providing SAR services to Crew Members and Non-Crew Survivors. SAR Assets will be operated by Rescuers. Tasks will include homing on EPLB transmissions, delivering Rescuers into survival situations and extracting personnel.*												
2.1.6.07	0183	*The role of Beacon ID Management System will be taken by all UK MoD database, file and processing systems and services holding or managing EPLB operational and support information.*												
2.1.7		**System Requirements/General Requirements and Architecture/Sys**							1.44%	1.57%	1.82%		**1.82%**	
2.1.7.1		**System Requirements/General Requirements and Architecture/System**							0.00%	0.00%	0.00%		**0.00%**	
2.1.7.1.01	0168	The system shall be a wearable electronic equipment for Crew Members.	C	C/NC	OTS	C	C		0.00%	0.00%		No obvious reasons for it to not be wearable	0.00%	
2.1.7.1.02	0575	*EPLB will consist of:* *- Beacon electronics, ie control, processing and amplifier elements;* *- A power source, ie battery;* *- One or more antenna assembl(ies).*												

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.1.7.1.03	0362	The system shall have an RF interface with the C-S Satellite System. ~ To LEOSAR ~To GEOSAR ~ Meets or exceeds system and individual requirements of C/S T.001 when tested by any appropriate means.	C	C/NC	OTS	C	C		0.00%	0.00%		the likelihood of compliance at the system level is likely given the current complaince of the baseline beacon element plus a development activity to undertake the CS testing.	0.00%	
2.1.7.1.04	0363	The system shall have an RF interface with one or more GNSS Sources.	C	C/NC	Dev	C	C		0.00%	0.00%		Baseline has GPS	0.00%	
2.1.7.1.05	0364	The system shall have an RF interface with one or more SAR Assets.	C	C/NC	OTS	C	C		0.00%	0.00%		Table 4, section 2.3 of the Development Baseline document indicates the PRC-648T2 can transmit at 121.5 MHz and 243 MHz giving a good indication that compliance is achieved.	0.00%	
2.1.7.2		**System Requirements/General Requirements and Architecture/System**							0.22%	0.22%	0.22%		**0.22%**	
2.1.7.2.01	0162	The system shall have a beacon component.	C	C/NC	OTS	C	C		0.00%	0.00%		Incorrectly badged as OTS, when Development is planned	0.00%	
2.1.7.2.02	0366	The beacon component shall have one or more User controls.	C	C/NC	OTS	C	C	C	0.04%	0.04%	0.04%		0.04%	
2.1.7.2.03	0009	The beacon component shall have an audio sounder.	C	C/NC	Dev	C	C	C	0.04%	0.04%	0.04%	Claimed in Baseline	0.04%	
2.1.7.2.04	0520	The beacon component shall have a visual indicator.	C	C/NC	OTS	C	C	C	0.03%	0.03%	0.03%	The baseline has one, so its likely the final solution will too.	0.03%	
2.1.7.2.05	0365	If the automatic activation method is mechanical, the beacon component of the Live Operational Variant for use with ejection seats shall have an interface with Aircrew Clothing.	C	C/NA/NC	OTS	C	C	C	0.10%	0.10%	0.10%	This is present and OTS. There would appear to be minimal risk with achieving compliance	0.10%	
2.1.7.3		**System Requirements/General Requirements and Architecture/System**							0.03%	0.03%	0.03%		**0.03%**	
2.1.7.3.01	0163	The system shall have a battery.	C	C/NC	OTS	C	C		0.00%	0.00%		Electrochem D Cell, plus development route for variants	0.00%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.1.7.3.02	0169	The battery shall provide all system power. ~Independently of aircraft systems, other aircraft equipment assemblies and other survival equipment.	C	C/NC	OTS	C	C		0.00%	0.00%			0.00%	
2.1.7.3.03	0166	The battery shall be contained within, attached to or connected to the beacon component.	C	C/NC	OTS	C	C		0.00%	0.00%		inside battery compartment	0.00%	
2.1.7.3.04	0361	Rechargeable batteries shall have charging interfaces.	C	C/NC	OTS	C	C	C	0.03%	0.03%	0.03%	standard cell, with standard charger	0.03%	
2.1.7.4		**System Requirements/General Requirements and Architecture/System**							0.12%	0.12%	0.12%		**0.12%**	
2.1.7.4.01	**0164**	The system shall have one or more antenna assemblies, each consisting of one or more antenna components. ~The antenna components shall be antennas, flexible cables, attachments and orientation devices.	C	C/NC	Dev	C	C		0.00%	0.00%		separate GNSS and VUHF tx	0.00%	
2.1.7.4.02	0167	The antenna assembl(ies) shall be contained within, attached to or connected to the beacon component.	C	C/NC	OTS	C	C		0.00%	0.00%		remote antennas plus built-in ones	0.00%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.1.7.4.03	0463	The antenna assembl(ies) shall allow for a range of orientations of the beacon component. ~Antenna performance is maintained while enabling freedom of movement and orientation, including for: - Installation; - User orientation and movement; - User access to control functions.	C	C/NC	Dev	C	C	C	0.04%	0.04%	0.04%	Remote Antenna assembly completely independent of beacon unit orientation	0.04%	
2.1.7.4.04	0464	The antenna assembl(ies) shall allow for multiple operating locations of antenna(s). ~Antenna performance is maintained while allowing installation and operation in: - Aircrew Clothing; - Life Rafts; - Handheld; - Placed on or suspended from a vantage point.	C	C/NC	Dev	C	C	C	0.08%	0.08%	0.08%	likely to meet the intent of this requirement, previous test results show Ae performance maintained in on ground and above ground configs	0.08%	
2.1.7.5		**System Requirements/General Requirements and Architecture/System**							0.57%	0.69%	0.93%		**0.93%**	
2.1.7.5.01	0114	The system shall be integrated with Aircrew Clothing as listed at Part 4. ~Solution is demonstrated to integrate with Aircrew Clothing.	1	Status	Dev	1	1	2	0.00%	0.00%	0.24%	bespoke pocket may still represent a "mod" in that it needs to be cleared.	0.24%	LH02

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.1.7.5.02	0465	The antenna assembl(ies) shall be integrated with the stoles of Aircrew Clothing as listed at Part 4. ~Solution is demonstrated to integrate with Aircrew Clothing.	2	Status	Dev	1	2	2	0.11%	0.23%	0.23%	Para 4.2.1 of baseline doc says there might be minor mods required, hence Pess score.	0.23%	LH01
2.1.7.5.03	0634	When the stole of Aircrew Clothing is not fitted, the antenna assembl(ies) shall be integrated with Aircrew Clothing as listed at Part 4. ~Solution is demonstrated to integrate with Aircrew Clothing.	2	Status	Dev	2	2	2	0.23%	0.23%	0.23%	form fit replacement for S7	0.23%	LH01
2.1.7.5.04	0115	The system shall be integrated with Life Rafts as listed at Part 4. ~Solution is demonstrated to integrate with Life Rafts without modifying the latter.	C	C/NC	OTS	C	C	C	0.23%	0.23%	0.23%	similar interface to existing equipment.	0.23%	
2.1.7.5.05	0194	*Where necessary, authorised modifications to the design of AircrewClothing to accommodate EPLB will be based on the agreed EPLB system design. Life Rafts will not be modified.*												
2.1.7.5.06	0367	The system shall have one or more tethering points for attachment to Aircrew Clothing and Life Rafts.	C	C/NC	OTS	C	C		0.00%	0.00%		This solution does have a tethering point on the main body of the beacon. This is compliant.	0.00%	
2.1.7.6		**System Requirements/General Requirements and Architecture/System**							0.51%	0.52%	0.53%		**0.53%**	
2.1.7.6.1		**System Requirements/General Requirements and Architecture/System Ar**							0.15%	0.16%	0.16%		**0.16%**	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.1.7.6.1.01	0084	The system shall provide audible indications to the User. ~ Indications from the system when stowed or stored in any installed configuration are clearly audible from at least 5 metres in maintenance and storage conditions.	C	C/NC	OTS	C	C	C	0.04%	0.04%	0.04%	In a typical SE Maint/Store environment the audible tone could be heard from 5m, with the attenuation provided by helmets/CEP that crew wear, we believe that the tone would not be heard in an aircraft environment.	0.04%	
2.1.7.6.1.02	0454	The system shall provide visual indications to the User.	2	Status	OTS	NC	1	2	0.00%	0.01%	0.02%	OVERRULED TO THRESHOLD.This P2 SR for visual indications requires installed performance i.e. user gets visual indications with kit installed (deployed or not). It requires this at both Threshold and Objective levels. This P2 SR seeks to achieve something over and above the "LED on the beacon SR" which is required under SR520 at P1. The evidence does not bear out the claim. CQ FER 017 response unconvincing	0.02%	LH01
2.1.7.6.1.03	0589	The system shall indicate each state or event in a unique manner. ~Distinguishable from each other. ~Distinguishable from common indications in an aircraft environment.	C	C/NC	Dev	C	C	C	0.04%	0.04%	0.04%	Utilising the LED lighting system and buzzer, the unit idicates the Mode, Battery Status and Operation Status to the user.	0.04%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.1.7.6.1.04	0294	All system indications shall be unambiguous. ~ Clear. ~ Simple. ~ Easy to understand in isolation or in combination. ~Able to be logically associated with the states or events indicated.	C	C/NC	OTS	C	C	C	0.04%	0.04%	0.04%	Indications include several LED/Audible indicators that have respective associations. This will require some training for the user.	0.04%	
2.1.7.6.1.05	0085	The system shall generate audible and visible indications of the same state or event simultaneously. ~Audible and visual indications start within 20 milliseconds of each other and end within 20 milliseconds of each other ~Indications start within 100 milliseconds of the state changing or event occurring. The second or further indications of a group of coincident or near-coincident states or events are presented at 1 second intervals.	C	C/NC	Dev	C	C	C	0.04%	0.04%	0.04%	LEDs and Buzzer activate simultaneously in all conditions.	0.04%	
2.1.7.6.2		**System Requirements/General Requirements and Architecture/System Ar**							0.25%	0.25%	0.25%		**0.25%**	
2.1.7.6.2.01	**0602**	On arming, the system shall indicate the result of an RF status test.	C	C/NC	OTS	C	C	C	0.05%	0.05%	0.05%	BIT initiated on selecting AUTO (=ARM)	0.05%	
2.1.7.6.2.02	0354	On activation, the system shall indicate its activation state.	C	C/NC	OTS	C	C	C	0.08%	0.08%	0.08%	periodic BIT	0.08%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.1.7.6.2.03	0353	While activated, the system shall regularly indicate its activation state. ~At least once per minute.	C	C/NC	OTS	C	C	C	0.05%	0.05%	0.05%	Indication will not be see-able by user, however response to related CQ ferrranti suggest they can solve that problem.	0.05%	
2.1.7.6.2.04	0597	While activated, the system shall indicate a change in its RF status.	C	C/NC	OTS	C	C	C	0.04%	0.04%	0.04%	LEDs indicate CBIT result	0.04%	
2.1.7.6.2.05	0424	While activated, the system shall regularly indicate a warning when the battery charge state is low. ~At least once a minute while the battery charge state is estimated to be within a supplier configurable period from expiry. ~The warning indications do not significantly reduce remaining battery life.	C	C/NC	OTS	C	C	C	0.03%	0.03%	0.03%	Once lower thatn 3% batt warning comes on by itself	0.03%	
2.1.7.6.3		**System Requirements/General Requirements and Architecture/System Ar**							0.11%	0.11%	0.11%		**0.11%**	
2.1.7.6.3.01	0426	On demand, the system shall indicate its battery usage in hours or part hours. ~The warning indications do not significantly reduce remaining battery life.	C	C/NC	Dev	C	C	C	0.04%	0.04%	0.04%	POSSIBLE OVERRULE REQUIRED: software spec only plans to implement hours and tens of hours, not parts of hours. FER 28 claim that hours OR parts of hours is met by just HOURs	0.04%	
2.1.7.6.3.02	0596	The system shall indicate the result of a full self-test.	C	C/NC	OTS	C	C	C	0.08%	0.08%	0.08%	baseline (T2) unit claims this function	0.08%	
2.1.8		**System Requirements/General Requirements and Architecture/Sys**							1.30%	1.30%	1.30%		**1.30%**	
2.1.8.1		**System Requirements/General Requirements and Architecture/System**							0.00%	0.00%	0.00%		**0.00%**	
2.1.8.1.01	0401	*EPLB will have operational and training variants.*												

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.1.8.1.02	0516	*The operational variants will be referred to formally as Live Operational Variant(s). The rationale for the potential number of Live Operational Variants is discussed below.*												
2.1.8.1.03	**0118**	*Live Operational Variant(s) will be worn by Crew Members in three different ways:* *- Worn by Crew Members who use ejection seats;* *- Worn by Crew Members who do not use ejection seats;* *- Stowed with Aircrew Clothing to be donned by Crew Members in an emergency.*												
2.1.8.1.04	0200	*In a maritime survival situation, following aircraft abandonment and EPLB activation, EPLB will often be operated from Life Rafts.*												
2.1.8.1.05	0402	*Training variants will be used in homing training for SAR Assets, and swimming pool, sea and classroom training for individual Users.*												
2.1.8.1.06	0405	*One SAR Training Variant will be needed that faithfully transmits homing signals but will not have the alerting or position detecting functions of the Live Operational Variant(s).*												

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.1.8.1.07	0234	*The SERE/SE Fit Training Variant(s) will be used for swimming pool, sea and classroom training. These will need to replicate the look and feel of the Live Operational Variant(s) as closely as reasonably practicable, without needing to transmit alerts, detect position or transmit homing signals, so needing much less power than other variants.*												
2.1.8.1.08	0513	*EPLB will also have testing and acceptance variants, which will be based on the operational variants but are not specified in this SRD.*												
2.1.8.1.09	0323	*The system will have a Live Testing Variant per Live Operational Variant.*												
2.1.8.1.10	0227	*The system will have one or more Space and Weight Model Variant(s) per Live Operational Variant.*												
2.1.8.2		**System Requirements/General Requirements and Architecture/System**							0.00%	0.00%	0.00%		**0.00%**	
2.1.8.2.01	**0119**	*While it is highly desirable that the system design results in a single Live Operational Variant, different constraints apply to the cases in ID0118. In particular, there is limited space for EPLB integration with AircrewClothing, and automatic activation is needed for CrewMembers who use ejection seats.*												

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.1.8.2.02	**0120**	*The drivers of a single Live Operational Variant, or of minimising differences between these variants, can be summarised as:* *- Common appearance, for familiarity;* *- Interchangeability of components, for convenience;* *- Common operating procedures, for familiarity and ease of training;* *- Common approach to integration with Aircrew Clothing and Life Rafts, for familiarity and cost;* *- Logistics convenience and cost;* *- Whole life cost.*												
2.1.8.2.03	0519	*In a survival situation, Crew Members who use ejection seats are likely to be on their own with minimal Survival Equipment and they could be unconscious. The performance and endurance of EPLB are therefore most critical for Users who may have least space to carry a beacon.*												
2.1.8.2.04	**0406**	*Having Live Operational Variants of different sizes would contradict operational priorities as well as the drivers in ID0120.*												

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.1.8.2.05	0148	*It is permitted to have more than one Live Operational Variant if necessary to satisfy the requirements for automatic activation.*												
2.1.8.2.06	0121	*Therefore the requirements will refer to usage with ejection seats in all cases where automatic activation may justify providing a second Live Operational Variant.*												
2.1.8.3		**System Requirements/General Requirements and Architecture/System**							0.65%	0.65%	0.65%		**0.65%**	
2.1.8.3.01	0335	*This section formally defines the requirements arising from the rationale discussed above.*												
2.1.8.3.02	**0336**	The system shall have a Live Operational Variant for wear by Crew Members who use ejection seats.	C	C/NC	OTS	C	C		0.00%	0.00%		single configurable variant across all user types	0.00%	
2.1.8.3.03	**0411**	The system shall have a Live Operational Variant for wear by Crew Members who do not use ejection seats.	C	C/NC	OTS	C	C		0.00%	0.00%		single configurable variant across all user types	0.00%	
2.1.8.3.04	**0412**	The system shall have a Live Operational Variant for stowage with Aircrew Clothing to be donned by Crew Members in an emergency.	C	C/NC	OTS	C	C		0.00%	0.00%		single variant for all user types	0.00%	
2.1.8.3.05	**0229**	The Live Operational Variant for wear by Crew Members who do not use ejection seats shall meet the requirements for stowage with Aircrew Clothing.	C	C/NC	OTS	C	C	C	0.49%	0.49%	0.49%	These 2 requirements can be met using the identical beacon configuration	0.49%	
2.1.8.3.06	**0228**	The Live Operational Variant for wear by Crew Members who do not use ejection seats shall meet the requirements for wear by Crew Members who use ejection seats.	C	C/NC	OTS	C	C	C	0.16%	0.16%	0.16%	The unit can be used in both ejection and non-ejection aircraft, without modification.	0.16%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.1.8.4		**System Requirements/General Requirements and Architecture/System**							0.08%	0.08%	0.08%		**0.08%**	
2.1.8.4.01	0149	The system shall have a SAR Training Variant.	C	C/NC	Dev	C	C	C	0.08%	0.08%	0.08%	Variant proposed	0.08%	
2.1.8.5		**System Requirements/General Requirements and Architecture/System**							0.08%	0.08%	0.08%		**0.08%**	
2.1.8.5.01	0226	The system shall have a SERE/SE Fit Training Variant per Live Operational Variant. ~Emulates the control types, locations and actions of the corresponding Live Operational Variant(s). ~Emulates the types, locations, events and timing of the audio and visual indications of the corresponding Live Operational Variant(s).	C	C/NC	Dev	C	C	C	0.08%	0.08%	0.08%	essentially same beacon factory configured and de-featured	0.08%	
2.1.8.6		**System Requirements/General Requirements and Architecture/System**							0.23%	0.23%	0.23%		**0.23%**	
2.1.8.6.01	0321	The system shall have a single design of battery per Live Operational Variant. ~Each Live Operational Variant uses one design of battery. ~There are — designs of battery across all variants.	1	designs	OTS	1	1	1	0.07%	0.07%	0.07%	only one config	0.07%	T: 3 O: 1
2.1.8.6.02	**0407**	The battery for the SAR Training Variant shall be rechargeable.	C	C/NC	OTS	C	C	C	0.02%	0.02%	0.02%		0.02%	
2.1.8.6.03	**0408**	The system shall have a single design of battery enclosure for the SERE/SE Fit Training Variant(s).	C	C/NC	OTS	C	C	C	0.07%	0.07%	0.07%	Part of the Beacon unit -common across all variants	0.07%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.1.8.6.04	0410	The battery enclosure for the SERE/SE Fit Training Variant(s) shall have a rechargeable battery pack.	C	C/NC	OTS	C	C	C	0.02%	0.02%	0.02%	rechargeable cell	0.02%	
2.1.8.6.05	0414	The battery enclosure for the SERE/SE Fit Training Variant(s) shall fit COTS dry cell batteries.	C	C/NC	OTS	C	C	C	0.02%	0.02%	0.02%	Primary battery can be used	0.02%	
2.1.8.6.06	0413	The battery enclosure for the SERE/SE Fit Training Variant(s) shall fit COTS rechargeable dry cell batteries.	C	C/NC	OTS	C	C	C	0.02%	0.02%	0.02%	takes a standard cell	0.02%	
2.1.8.6.07	0451	The battery types for the SERE/SE Fit Training Variant(s) shall be interchangeable.	C	C/NC	OTS	C	C	C	0.01%	0.01%	0.01%	only one SERE/SE variant	0.01%	
2.1.8.6.08	0584	Batteries for training variants shall not be interchangeable with batteries for Live Operational Variant(s).	C	C/NC	Dev	C	C		0.00%	0.00%		requires special end cap to make trg batteries fit and work	0.00%	
2.1.8.7		**System Requirements/General Requirements and Architecture/System**							0.26%	0.26%	0.26%		**0.26%**	
2.1.8.7.01	0322	The Live Operational Variant(s) and SAR Training Variant shall have identical antenna assembl(ies).	C	C/NC	OTS	C	C	C	0.04%	0.04%	0.04%	will be same item	0.04%	
2.1.8.7.02	0511	The antenna assembl(ies) for Live Operational Variant(s) shall be interchangeable between Live Operational Variant(s).	C	C/NC	OTS	C	C	C	0.08%	0.08%	0.08%	Only one LOV	0.08%	
2.1.8.7.03	0588	The antenna assembl(ies) for the SAR Training Variant shall be interchangeable with those for the Live Operational Variant(s).	C	C/NC	OTS	C	C	C	0.04%	0.04%	0.04%	claimed as same unit.	0.04%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.1.8.7.04	0512	Subject to interchangeability constraints, the antenna assembl(ies) for SERE/SE Fit Training Variant(s) shall have the same form and fit as those for the Live Operational Variant(s).	C	C/NC	OTS	C	C	C	0.04%	0.04%	0.04%	The evidence provided suggests that the SERE/trg beacons will be identical, with dummy components fitted.	0.04%	
2.1.8.7.05	0585	The antenna assembl(ies) for the SERE/SE Fit Training Variant shall not be interchangeable with antenna assembl(ies) for the Live Operational Variant(s) or the SAR Training Variant.	C	C/NC	Dev	C	C	C	0.05%	0.05%	0.05%	The evidence provided suggests that dummy and live componants are not interchangeable.	0.05%	
2.1.9		**System Requirements/General Requirements and Architecture/Pro**							0.43%	0.63%	0.63%		**0.63%**	
2.1.9.01	0071	The system shall be designed to prevent inadvertent automatic activation.	C	C/NC	OTS	C	C	C	0.14%	0.14%	0.14%	considered in HF analysis	0.14%	
2.1.9.02	0423	The system shall be designed to prevent inadvertent automatic deployment of antenna(s).	C	C/NC	OTS	C	C	C	0.11%	0.11%	0.11%	The external antenna is secured to the life preserver stole and will not deploy until the stole is inflated.	0.11%	
2.1.9.03	0070	The system shall be protected against inadvertent manual activation.	C	C/NC	OTS	C	C	C	0.11%	0.11%	0.11%	no change over the current system, no increase in risk	0.11%	
2.1.9.04	0170	The system shall be protected against inadvertent deactivation.	C	C/NC	OTS	NC	C	C	0.00%	0.05%	0.05%	the unit is only protected against this by including a low-profile switch, which is, in itself protected by the beacon pocket.danger that movement could disturb this switch hence pess score	0.05%	
2.1.9.05	0069	When activated, the system shall not deactivate without positive action by the User. ~Whilst battery retains sufficient power for normal operation.	C	C/NC	OTS	C	C		0.00%	0.00%		The unit can only be deactivated by the use of the switch or if the battery runs out.	0.00%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.1.9.06	0462	When deployed, the antenna(s) shall be protected against inadvertent retention in the non-deployed position.	C	C/NC	OTS	C	C	C	0.07%	0.07%	0.07%	The antenna is spring loaded preventing retention in the stowed position	0.07%	
2.1.9.07	0554	The SAR Training Variant shall be protected against inadvertent selection of a homing frequency.	C	C/NC	Dev	NC	C	C	0.00%	0.14%	0.14%	whilst a dev activity to reconfigre the mode selector switch is included, it doesnt give any indication of how inadvertent selections of the wrong frequency will be achieved. hence pess NC	0.14%	
2.1.10		**System Requirements/General Requirements and Architecture/Not**							0.00%	0.00%	0.00%		**0.00%**	
2.1.10.01	0381	*The requirements for EPLB have been specified by means of a number of standards, however none of these covers all the necessary areas in a way that fully meets the needs of the UK MoD. Where such gaps exist this SRD defines the full performance the UK MoD require from EPLB.*												
2.1.10.02	0382	*It is not appropriate to place the standards quoted in a simple order of precedence, however there are several main priorities:.*												
2.1.10.03	0383	*- To achieve Cospas-Sarsat approval.*												
2.1.10.04	0386	*- To achieve GNSS compliance.*												
2.1.10.05	0384	*- To meet the homing characteristics defined by STANAG 7007 and EUROCAE ED-62A.*												
2.1.10.06	0387	*- To integrate effectively with the in-service and planned AircrewClothing and Life Rafts.*												

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.1.10.07	0388	*- To be operable by Users under stress, in harsh conditions and potentially while injured.*												
2.1.10.08	0385	*- To operate in or survive the environments and conditions defined by Def Stan 00-35, so that EPLB will remain active for as long as reasonably practicable in a survival situation.*												
2.1.10.09	0389	*The type approval requirements are intended as a foundation for the other individual requirements and their Measures of Performance.*												
2.1.10.10	0390	*Many of the individual Measures of Performance, in particular the Objective MoPs, will exceed the levels specified in the standards.*												
2.1.10.11	0392	*With regard to environmental performance, the EPLB must satisfy Def Stan 00-35 and in addition comply with STANAG 7007. Meeting EUROCAE ED-62A as a whole is a lower priority than meeting individual MoPs derived from ED-62A.*												
2.1.10.12	0391	*Where a standard covers optional features of EPLB, ie those not required by this SRD but which are proposed as part of the solution, those features will still need to comply with the standard in order for EPLB to comply.*												

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.1.10.13	0393	*Where standards are, or appear to be in conflict, the requirement(s) or MoP(s) should be understood as stating the more demanding performance, so as to comply with or exceed both or all standards concerned.*												
2.1.11		**System Requirements/General Requirements and Architecture/Not**							0.00%	0.00%	0.00%		**0.00%**	
2.1.11.01	0274	*As a shorthand notation, throughout the SRD, Objective Measures of Performance are to be understood as including and extending the defined Threshold Measure(s) of Performance, per requirement.*												
2.1.11.02	0304	*Various MoPs refer to a subset of operating conditions using the term "under an open sky". This means conditions that are favourable for GNSS reception, not dissimilar to C-S type approval test conditions, but extended to cover weather and locations of interest for MoD trials.*												

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.1.11.03	0305	*The working definition of "under an open sky" is: - EPLB installed in an operational configuration; - For User and hence system orientations applicable to survival situations, within the ranges associated with automatic and manual activation, regardless of User state of consciousness or health; - The system may be moving consistent with the operational configuration and User location; - For land, salt and fresh water; in water, up to and including Sea State 4 (some spray), the User floating face up with stole inflated or using a Life Raft; - For precipitation no greater than 2.5 mm rain or 30 mm snowper hour, any relative humidity, temperature within the range defined by the endurance requirements; - For GEOSAR reception:*												
2.1.12		**System Requirements/General Requirements and Architecture/COT**							0.00%	0.00%	0.00%		**0.00%**	
2.1.12.01	0376	*Non-required COTS functions may be present provided that the solution satisfies the requirements.*												
2.1.12.02	0567	*The presence or operation of non-required COTS functions will not be permitted to reduce the availability, operability or performance of required functions.*												

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.2		**System Requirements/Operational Functionality and Perform**							2.74%	4.03%	4.28%		**4.93%**	
2.2.1		**System Requirements/Operational Functionality and Performance/**							0.00%	0.00%	0.00%		**0.00%**	
2.2.1.01	**0246**	The system shall be armed by the User.	C	C/NC	OTS	C	C		0.00%	0.00%		The unit CAN be armed by either type of user, however, current in-use beacons with auto-activation facilities are armed by SE Fitt maintainers.	0.00%	
2.2.1.02	0083	The system shall be disarmed by the User.	C	C/NC	OTS	C	C		0.00%	0.00%		the unit can be disarmed by the mode selector switch or by removal of the battery.	0.00%	
2.2.2		**System Requirements/Operational Functionality and Performance/**							0.59%	0.66%	0.91%		**0.91%**	
2.2.2.01	0546	*Automatic activation applies to the Live Operational Variant for use with ejection seats, and to emulation in the corresponding SERE/SE Fit Training Variant.*												
2.2.2.02	**0243**	The system shall have an automatic activation method that operates during the process of ejection and descent.	C	C/NC	OTS	C	C		0.00%	0.00%		the unit has 2 auto activation methods, the g-switch, which detects the G forces during ejection and a lanyard 'pull' which is activated during man/seat separation.	0.00%	
2.2.2.03	**0064**	The system shall activate automatically as soon as reasonably practicable during the process of ejection and descent of the ejected Crew member. ~ Without jeopardising the process of ejection or descent.	2	Status	OTS	2	2	2	0.28%	0.28%	0.28%	The G-switch should activate the beacon on initiation of the ejection sequence.	0.28%	LH02
2.2.2.04	**0643**	On automatic activation, the system shall achieve full RF performance without User interaction.	C	C/NC	OTS	NC	C	C	0.00%	0.08%	0.08%	CQ FER 029 confirms performance "improved" if stole deployed (i.e. NOT full performance without)	0.08%	
2.2.2.05	**0419**	If necessary to achieve full RF performance, the system shall automatically deploy its antenna(s) on stole inflation.	C	C/NA/NC	OTS	C	C	C	0.06%	0.06%	0.06%	same concept as S7	0.06%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.2.2.06	0644	The system shall maintain full RF performance independently of stole inflation.	2	Status	Dev	1	1	2	0.24%	0.24%	0.49%	inflated stole has little effect on physical location in the photos, though difficult to see how it would self right if knocked over.	0.49%	LH01
2.2.3		**System Requirements/Operational Functionality and Performance/I**							0.20%	0.31%	0.31%		**0.31%**	
2.2.3.01	0547	*Manual activation applies to all variants.*												
2.2.3.02	0065	The system shall be activated manually by the User with a single action. ~A means of activation is provided that: - Is easily accessible; - Is operated manually; - Is operated positively in a single movement.	C	C/NC	OTS	C	C		0.00%	0.00%		CQ. Possible overrule. doesn't comply with definition of activation in the SRD, which includes deploying antennas if necessary. CQ to determine whether deploying the antenna "is necessary" Deploying Ae is not necessary but improves performance. FER 029 refers	0.00%	
2.2.3.03	0244	When installed in Aircrew Clothing, the system shall have an activation method that is linked with manual inflation of the stole. ~The system is activated as well as the stole being inflated by means of a single movement. Activation is simultaneous or in quick succession.	C	C/NC	OTS	C	C	C	0.09%	0.09%	0.09%	The evidence suggests that this will be included during their development process. Their manual activation method is similar to some UK legacy garments and has been proven successful.	0.09%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.2.3.04	0418	When installed on the stole of Aircrew Clothing, the system shall have a manual activation method that operates independently of inflation of the stole. ~System activation can be accomplished easily and reliably without the stole inflating. ~Subsequent stole inflation is unaffected.	C	C/NC	OTS	C	C	C	0.05%	0.05%	0.05%	CQ required to confirm fullscope of activation is achieved Fer 029 - stole not necessary to be deployed.	0.05%	
2.2.3.05	0635	When the stole of Aircrew Clothing is not fitted, the system shall have a manual activation method that operates independently. ~System activation can be accomplished through — movements in order to activate the beacon and deploy the antenna(s).	1	movements	OTS	2	1	1	0.00%	0.05%	0.05%	CQ Required: 1 movement only turns radio on, does not deploy antenna. need to confirm if antenna must be deployed to achieve performance.	0.05%	T: 2 O: 1
2.2.3.06	0066	Following automatic or manual activation, the system shall be manually deactivated by the User.	C	C/NC	OTS	C	C		0.00%	0.00%		true, (as opposed to disarm) the assumption is that an incident is in progress, rather than a continuing mission	0.00%	
2.2.3.07	0068	When deactivated, the system shall be manually reactivated by the User.	C	C/NC	OTS	C	C		0.00%	0.00%		true, in the context of having deactivated it (as opposed to disarm) the assumption is that an incident is in progress, rather than a continuing mission	0.00%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.2.3.08	0420	If necessary to achieve full RF performance, the antenna(s) shall be deployed manually with as little User interaction as reasonably practicable.	2	Status	OTS	1	2	2	0.05%	0.09%	0.09%	The primary antenna; the auxiliary, exists in a deployed state as demonstrated by Figure 6 - Auxiliary Antenna on Page 20 of Ferranti's Development Baseline document. Section 2.4.3 on Page 19 of the same document states 'The integral antenna is deployed by one hand releasing it from a stud, causing it to spring into an upright position.' Both antennas are judged to be deployed with as little user interaction as reasonably practicable and as such Ferranti is judged to be compliant with this requirement. Value = 1 as it requires user interaction.	0.09%	LH01
2.2.3.09	0421	If necessary, on deactivation the antenna(s) shall be restrained manually with as little User interaction as reasonably practicable. ~With a single action per antenna.	C	C/NC	OTS	NC	C	C	0.00%	0.01%	0.01%	cant see how this is achieved without the stole being done back up.CQ FER 033 response cites SR220 as reason to need extra steps, but that is not the situation being considered .PESS=NC	0.01%	
2.2.4		**System Requirements/Operational Functionality and Performance/**							0.34%	0.45%	0.45%		**1.06%**	
2.2.4.1		**System Requirements/Operational Functionality and Performance/Alert**							0.00%	0.05%	0.05%		**0.20%**	
2.2.4.1.01	0339	*Alerting applies to the Live Operational Variant(s). The SAR Training Variant will not transmit alerts (with or without position data) and the SERE/SE Fit Training Variant(s) will have no RF functionality.*												

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.2.4.1.02	0147	While activated, the system shall transmit alerts to the C-S Satellite System. ~ To LEOSAR ~To GEOSAR ~C-S type approval in intended operational configuration(s) is achieved. ~100% of alerts recieved in lab conditions. ~ — % of alerts recieved in field trials under an open sky.	99.40	%	Dev	90.00	98.00	98.00	0.00%	0.05%	0.05%	updated with post CQ figures. 98 as face then our judgement on the P&O suggest 90 as pess as they already achieve this	0.07%	T: 90 O: 100
2.2.4.1.03	0146	The system shall transmit alerts regardless of the quality of its position data. ~100% of alerts recieved in lab conditions. ~The alerts enable the C-S Satellite System to meet or exceed its defined performance for Doppler location probability and Doppler ambiguity resolution.	C	C/NC	Dev	C	C		0.00%	0.00%		Evidence cited does not cover the SR requested. However, on basis that beacon is already CS approved, content this functionality is present.	0.00%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.2.4.1.04	0302	The system shall maintain its alert performance independent of the orientation of the User or the beacon component. ~ To LEOSAR ~To GEOSAR ~C-S type approval in intended operational configuration(s) is achieved. ~100% of alerts recieved in lab conditions. ~ — % of alerts recieved in field trials under an open sky.	90.00	%	Dev	NC	NC	90.00	0.00%	0.00%	0.00%	APS_FER_008	0.13%	T: 90 O: 100
2.2.4.2		**System Requirements/Operational Functionality and Performance/Alert**							0.15%	0.15%	0.15%		**0.21%**	
2.2.4.2.01	0296	After activation, the system shall transmit its first alert as soon as possible. ~Initial alert transmission is made within — seconds of system activation demand, irrespective of whether a position fix has been determined. ~Under an open sky, initial alert is received by the C-S Satellite Systems.	30.0	seconds	OTS	30.0	30.0	30.0	0.04%	0.04%	0.04%	Written evidence given of compliance following a firmware change, however no evidence located of a test being performed. CQ APS_FER_009 clarified issue with times presented in another document. They confirm transmission will be within 30s.	0.09%	T: 50 O: 5
2.2.4.2.02	0297	The system shall transmit alerts at time intervals that are randomly distributed between 47.5 and 52.5 seconds. ~The interval randomness follows a linear distribution.	C	C/NC	OTS	C	C	C	0.04%	0.04%	0.04%	Baseline TAC shows low - zero risk of non compliance	0.04%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.2.4.2.03	0303	The system shall transmit alerts with up-to-date position data as frequently as permitted. ~ Position data is updated in alerts no less frequently than the C/S update interval plus the C/S alert interval.	C	C/NC	OTS	C	C	C	0.08%	0.08%	0.08%	CHECK that this is the internal update not just the transmission.	0.08%	
2.2.4.3		**System Requirements/Operational Functionality and Performance/Alert**							0.19%	0.24%	0.24%		**0.24%**	
2.2.4.3.01	0295	The Live Operational Variant(s) shall transmit alerts using the National Location Protocol long message format with the protocol code set to represent "PLB". ~Message is formatted correctly on each alert. ~Message is transmitted correctly on each alert.	C	C/NC	OTS	C	C	C	0.09%	0.09%	0.09%	assume this will be sorted in final version. Operational Variant (National Location, Long Message, Not set to PLB).	0.09%	
2.2.4.3.02	0062	The system shall report its identity within each alert. ~All alerts contain the beacon identification.	C	C/NC	OTS	C	C		0.00%	0.00%		Evidence found in TAC and POD document	0.00%	
2.2.4.3.03	0061	The system shall report its position data as part of an alert. ~All alerts contain valid position data.	C	C/NC	OTS	C	C		0.00%	0.00%		Standard T001 behaviour backed up by test results.	0.00%	
2.2.4.3.04	0277	The system shall report its position with 4-second resolution. ~All alerts contain valid or default position data.	C	C/NC	OTS	NC	C	C	0.00%	0.04%	0.04%	Need to see some evidence that ALL alerts contain PDF2 (per the SR), not just SOME alerts	0.04%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.2.4.3.05	0063	The system shall use the National Use bits to report its position with 1-second resolution. ~All alerts contain valid or default position data.	C	C/NC	Dev	C	C	C	0.02%	0.02%	0.02%	Statement that this will be completed in version available before contract award. Content this will be compliant and could be tested immediately before contract award if required.	0.02%	
2.2.4.3.06	0278	The system shall use the National Use bits to report horizontal dilution of precision, regardless of the availability of valid position data. ~All alerts contain valid or default HDOP data.	C	C/NC	Dev	NC	C	C	0.00%	0.02%	0.02%	to be coded into bits 131 and 132, but no mention of how to decode	0.02%	
2.2.4.3.07	0290	The system shall prevent erroneous position data being encoded into an alert. ~All alerts contain valid or default position data.	C	C/NC	OTS	C	C	C	0.08%	0.08%	0.08%	This should be possible although there is uncertainty regarding the HDOP utilisation. However, D21 SRS has provided confidence that this subject matter has been properly investigated and explored.	0.08%	
2.2.4.4		**System Requirements/Operational Functionality and Performance/Alert**							0.00%	0.00%	0.00%		**0.41%**	
2.2.4.4.01	**0374**	The system shall transmit alerts as close as reasonably practicable to the maximum transmitter output power permitted under C-S type approval. ~Within — dBm of the permitted maximum under all environmental conditions. ~Without degradation of message.	1.500	dBm	OTS	2.000	**2.000**	2.000	0.00%	0.00%	0.00%	CQ FER 030 - 1.5 dB typo. OVERRULED with 2dB	0.21%	T: 2 O: 1

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.2.4.4.02	0569	The system shall transmit alerts as close as reasonably practicable to the maximum antenna gain permitted under C-S type approval. ~Within — dBi of the permitted maximum throughout the coverage specified by C/S T.001, under all environmental conditions. ~With the antenna(s) deployed in an installed configuration. ~Without degradation of message.	2.000	dBi	Dev	2.000	2.000	2.000	0.00%	0.00%	0.00%	Detailed antenna analysis paper shows that the approach has been carefully considered and the challenge acknowledged. However no evidence to allow us to use numbers other than 2 in the score.	0.21%	T: 2 O: 1
2.2.5		**System Requirements/Operational Functionality and Performance/I**							0.79%	0.98%	0.99%		**0.99%**	
2.2.5.1		**System Requirements/Operational Functionality and Performance/Posit**							0.15%	0.25%	0.26%		**0.26%**	
2.2.5.1.01	0338	*Position detection applies to the Live Operational Variant(s). The SAR Training Variant will not need to detect its position and the SERE/SE Fit Training Variant(s) will have no RF functionality.*												
2.2.5.1.02	0060	While activated, the system shall detect its latitude and longitude worldwide. ~Fully compliant with applicable GNSS interface specifications in intended operational configuration(s).	C	C/NC	OTS	NC	C		0.00%	0.00%		can only do two out of three claimed constellations at a time. firmware selectable pair.	0.00%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.2.5.1.03	0289	The system shall express its position using the WGS 84 geodetic reference system. ~Full compliance with WGS 84 standard.	C	C/NC	OTS	C	C	C	0.04%	0.04%	0.04%	Page 6 of the tenderer's T.001 compliance certificate; PE TC «Omega» Test Report No 10/860 Vol. 1, Issue 1, states that their EPLB uses the Geodetic reference system WGS 84. As this has been signed off by PUBLIC ENTERPRISE TESTING CENTER «OMEGA»; a Cospas	0.04%	
2.2.5.1.04	0262	The system shall receive navigation messages from GPS.	2	Status	OTS	1	2	2	0.04%	0.08%	0.08%	appraoch to achieving OBJ level given in FER 31	0.08%	LH01
2.2.5.1.05	0275	The system shall receive navigation messages from GLONASS.	2	Status	OTS	1	1	2	0.01%	0.01%	0.02%	Overuled as can only have two out of the three constellations at one time. firmware selectable.	0.02%	LH01
2.2.5.1.06	0276	The system shall receive navigation messages from Galileo.	2	Status	Dev	1	2	2	0.01%	0.02%	0.02%	GLonass and Galileo mutually exclusive in the firmware load? ID 275 adjusted to reflect this.	0.02%	LH01
2.2.5.1.07	0284	The system shall maintain its position detection performance independent of the orientation of the User or the beacon component.	2	Status	Dev	1	2	2	0.06%	0.11%	0.11%	appraoch to achieving OBJ level given in FER 31	0.11%	LH01
2.2.5.2		**System Requirements/Operational Functionality and Performance/Posit**							0.64%	0.73%	0.73%		**0.73%**	
2.2.5.2.01	0291	On activation, the system shall have no stored time-dependent or position-dependent data. ~Stored data is cleared on deactivation or during the warm-up time.	C	C/NC	OTS	C	C		0.00%	0.00%		Content that this could be met. Low impact even if it weren't.	0.00%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.2.5.2.02	0280	After activation, the system shall initially calculate its position using the earliest available data and tracking information derived from GNSS Sources. ~Under an open sky, achieves at least 4-satellite position fix within — seconds of activation demand.	60	seconds		60	60	60	0.49%	0.49%	0.49%	6.7.2.12 states that acquisition shall be made within 1 min max.	0.49%	CL02
2.2.5.2.03	0273	The system shall keep its calculated position up-to-date. ~Position is updated not more than — seconds before each alert permitted to include a position update. ~HDOP is good to ideal consistent with the GNSS almanac data downloaded. The GNSS almanac is fully refreshed within the first 13 minutes after activation and completion of the warm-up time.	2.00	seconds	Dev	2.00	2.00	2.00	0.08%	0.08%	0.08%	Evidence provided in the SRS document. When coordinates are received, the GPS will not be switched off but continue to acquire current coordinates The GPS will switch off 2 seconds prior to message transmission.	0.08%	T: 10 O: 2
2.2.5.2.04	0279	The system shall calculate its position making optimum use of the available data and tracking information from GNSS Sources.	2	Status	OTS	1	2	2	0.03%	0.05%	0.05%	Evidence is pointed to (D21, D41) in documentation. Compliant	0.05%	LH01
2.2.5.2.05	0281	The system shall calculate its position with high accuracy. ~The system calculated position is within — metres of the true position under an open sky.	5.0	metres	OTS	5.0	5.0	5.0	0.05%	0.05%	0.05%	Typical small civil receiver will achieve 5 m 95% LP - Ranging error in sattelite would be approx 3m	0.05%	T: 20 O: 5

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.2.5.2.06	0271	The system shall maintain the integrity of the data and tracking information received from GNSS Sources. ~Errors associated with calculation and rounding are no greater than +/- — metres.	1.00	metres	OTS	2.50	1.00	1.00	0.00%	0.05%	0.05%	Evidence is pointed to (D21, D41) in documentation. Compliant	0.05%	T: 2.5 O: 1
2.2.6		**System Requirements/Operational Functionality and Performance/I**							0.82%	1.62%	1.62%		**1.66%**	
2.2.6.1		**System Requirements/Operational Functionality and Performance/Homi**							0.00%	0.23%	0.23%		**0.23%**	
2.2.6.1.01	0341	*Homing applies to the Live Operational Variant(s) and SAR Training Variant. The SERE/SE Fit Training Variant(s) will have no RF functionality.*												
2.2.6.1.02	**0599**	The system shall maintain its homing performance independent of the orientation of the User or the beacon component. ~Whenever the system is activated under an open sky, homing signals are received by airborne SAR Assets in range and in unobstructed line of sight.	C	C/NC	OTS	NC	C	C	0.00%	0.23%	0.23%	Full antenna polar plots required. Lab Test - This requirement is based around the antenna performance and orientation. This work would need to be carried out using the beacon and therefore would require Funtington's anechoic chamber, etc	0.23%	
2.2.6.2		**System Requirements/Operational Functionality and Performance/Homi**							0.66%	1.23%	1.23%		**1.27%**	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.2.6.2.01	0090	When activated, the Live Operational Variant(s) shall transmit a homing signal on 121.5 MHz. ~Operation up to maximum EIRP (26dBm, 400 mW, EUROCAE ED-62A). ~SAR Assets achieve a homing indication from a range of at least — nautical miles at 10000ft above the height of the beacon.	94.0	nautical miles	OTS	80.0	94.0	100.0	0.01%	0.02%	0.02%	Evidence at the links does not substantiate the 94NM figure given. The presentation indicates that for STANAG7007 range is 80km, yet with a budget allowance they achieve 94.	0.02%	T: 50 O: 100
2.2.6.2.02	0647	When activated, the Live Operational Variant(s) shall transmit a homing signal on 121.5 MHz. ~Operation up to maximum EIRP (26dBm, 400 mW, EUROCAE ED-62A). ~SAR Assets achieve a homing indication from a range of at least — nautical miles at 5000ft above the height of the beacon.	60.0	nautical miles	OTS	60.0	60.0	60.0	0.49%	0.49%	0.49%	As with the requirements at 10k ft, the evidence underpinning this requirement is not clear. Hence, whilst facevalue is not overridden, there is risk of it not being achieved.	0.49%	T: 30 O: 60
2.2.6.2.03	0091	When activated, the Live Operational Variant(s) shall transmit a homing signal on 243.0 MHz. ~Operation up to maximum EIRP (26dBm, 400 mW, EUROCAE ED-62A). ~SAR Assets achieve a homing indication from a range of at least — nautical miles at 10000ft above the height of the beacon.	78.0	nautical miles	OTS	50.0	78.0	78.0	0.00%	0.04%	0.04%	The evidence presented relies on a calculation, rather than any real world testing. As such, pessimistic score limited to threshold	0.08%	T: 50 O: 100

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.2.6.2.04	0648	When activated, the Live Operational Variant(s) shall transmit a homing signal on 243.0 MHz. ~Operation up to maximum EIRP (26dBm, 400 mW, EUROCAE ED-62A). ~SAR Assets achieve a homing indication from a range of at least — nautical miles at 5000ft above the height of the beacon.	60.0	nautical miles	OTS	30.0	60.0	60.0	0.00%	0.49%	0.49%	The evidence presented relies on a calculation, rather then any real world testing. As such, pessimistic score limited to threshold.	0.49%	T: 30 O: 60
2.2.6.2.05	0313	The Live Operational Variant(s) shall transmit the same homing signal on both homing frequencies. ~Simultaneous transmission of identical signals.	C	C/NC	OTS	C	C	C	0.02%	0.02%	0.02%	With the evidence presented, I am content that the bidder will be compliant with this requirement.	0.02%	
2.2.6.2.06	0457	When activated, the SAR Training Variant shall transmit a homing signal on 245.1 Mhz. ~Homing signal performance is equal in range to the Live Operational Variant(s) homing performance at 243.0MHz.	C	C/NC	OTS	C	C	C	0.08%	0.08%	0.08%	Whilst the actual evidence for this requirement is fairly limited, given the technical capability of the company and the relative ease of implementation, I am comfortable this is compliant.	0.08%	
2.2.6.2.07	0340	When activated, the SAR Training Variant shall transmit a homing signal on 122.55 Mhz. ~Homing signal performance is equal in range to the Live Operational Variant(s) homing performance at 121.5MHz.	C	C/NC	OTS	C	C	C	0.04%	0.04%	0.04%	Whilst the actual evidence for this requirement is fairly limited, given the technical capability of the company and the relative ease of implementation, I am comfortable this is compliant.	0.04%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.2.6.2.08	0459	The transmission of homing signals by the SAR Training Variant shall be selected by the User per homing frequency.	C	C/NC	Dev	C	C	C	0.01%	0.01%	0.01%	A clear statement of intent has been provided, although the description of the selection (Single - Dual - Tripple) is somewhat confusing. Should seek to amend this labelling if selected as preferred bidder.	0.01%	
2.2.6.2.09	0458	The SAR Training Variant shall transmit the same homing signal on both homing frequencies. ~When both frequencies are selected, simultaneous transmission of identical signals.	C	C/NC	OTS	C	C	C	0.02%	0.02%	0.02%	On the basis of Figure 18 of the high level design I am content this is compliant	0.02%	
2.2.6.2.10	0379	The homing antenna components for the Live Operational Variant(s) and SAR Training Variant shall be optimised for transmissions on 121.5 MHz. ~Optimisation for 121.5 MHz without reducing performance at 122.55 MHz, 243.0 MHz or 245.1 MHz by more than — dB.	0.20	dB	OTS	2.00	0.20	0.20	0.00%	0.04%	0.04%	No evidence found at link given, or other documents for the figure of 0.2 quoted. QQ discussion back this up stating that 0.2dB would be difficult to achieve	0.04%	T: 2 O: 0
2.2.6.3		**System Requirements/Operational Functionality and Performance/Homi**							0.16%	0.16%	0.16%		**0.16%**	
2.2.6.3.01	0581	*Except where specified, the requirements on homing signal characteristics apply to both the Live Operational and SAR Training Variants.*												
2.2.6.3.02	0342	The homing signal shall have a swept tone.	C	C/NC	OTS	C	C		0.00%	0.00%		Clear evidence that beacon has swept tone	0.00%	
2.2.6.3.03	0315	The homing signal swept tone shall vary between beacon components.	C	C/NC	Dev	C	C	C	0.02%	0.02%	0.02%	large number of variations available	0.02%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.2.6.3.04	0317	The homing signal swept tone variation shall be determined randomly between beacon components.	C	C/NC	Dev	C	C	C	0.01%	0.01%	0.01%	The tone of the beacon is determined by the serial number of the beacon. This level of 'randomness' is satisfactory for the SR concerned	0.01%	
2.2.6.3.05	0314	The homing signal shall be intermittent.	C	C/NC	OTS	C	C	C	0.04%	0.04%	0.04%	Content from the evidence provided this is compliant	0.04%	
2.2.6.3.06	0316	The homing signal intermittent transmission cycle shall vary between beacon components.	C	C/NC	Dev	C	C	C	0.02%	0.02%	0.02%	Content with the evidence provided to support this SR	0.02%	
2.2.6.3.07	0318	The homing signal intermittent transmission cycle variation shall be determined randomly between beacon components.	C	C/NC	Dev	C	C	C	0.01%	0.01%	0.01%	Content that from the evidence provided that this is compliant	0.01%	
2.2.6.3.08	0582	The SAR Training Variant shall replicate the combinations of homing signal characteristics transmitted by instances of the Live Operational Variant(s). ~Each instance of the SAR Training Variant replicates a combination of homing signal characteristics of an instance of a Live Operational Variant.	C	C/NC	Dev	C	C	C	0.04%	0.04%	0.04%	Content that the beacons are identical in design with the exception of the frequency and the slight db Loss as in SR 379	0.04%	
2.2.6.3.09	0583	If the SAR Training Variant can replicate multiple combinations of homing signal characteristics, its combination of homing signal characteristics shall be selected by the User. ~Each instance of the SAR Training Variant can select the combination of homing signal characteristics of a range of instances of Live Operational Variant(s).	C	C/NA/NC	Dev	C	C	C	0.03%	0.03%	0.03%	Content that this is compliant, although the method for selection is somewhat 'clunky'	0.03%	
2.3		**System Requirements/Support Functionality and Performanc**							1.17%	1.53%	1.53%		**1.53%**	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.3.1		**System Requirements/Support Functionality and Performance/Trai**							0.05%	0.09%	0.09%		**0.09%**	
2.3.1.1		**System Requirements/Support Functionality and Performance/Training**							0.02%	0.02%	0.02%		**0.02%**	
2.3.1.1.01	0545	*The SAR Training Variant will meet the homing-related training requirements.*												
2.3.1.1.02	0550	The SAR Training Variant shall be placed in static locations by the Rescuer.	C	C/NC	OTS	C	C		0.00%	0.00%		could use either antenna and achieve this	0.00%	
2.3.1.1.03	0538	The SAR Training Variant shall be installed in flotation devices by the Rescuer.	C	C/NC	OTS	C	C		0.00%	0.00%		this could be done	0.00%	
2.3.1.1.04	0535	The SAR Training Variant shall be operated by the Rescuer.	C	C/NC	OTS	C	C		0.00%	0.00%		Training material is in place and suitable for this stage of the competition.	0.00%	
2.3.1.1.05	0552	The battery for the SAR Training Variant shall be replaced by the Rescuer.	C	C/NC	OTS	C	C	C	0.02%	0.02%	0.02%	Simple process as detailed in the operational leaflet and to be covered in the training programme.	0.02%	
2.3.1.2		**System Requirements/Support Functionality and Performance/Training**							0.04%	0.07%	0.07%		**0.07%**	
2.3.1.2.01	0542	*The SERE/SE Fit Training Variant(s) will meet the classroom-related training requirements.*												
2.3.1.2.02	0548	*The SERE/SE Fit Training Variant(s) will meet the in-water training requirements.*												
2.3.1.2.03	0541	The SERE/SE Fit Training Variant(s) shall be installed in Aircrew Clothing by the Instructor.	C	C/NC	OTS	NC	C	C	0.00%	0.04%	0.04%	Yes, with the correct training, manuals and tooling (if required).	0.04%	
2.3.1.2.04	0539	The SERE/SE Fit Training Variant(s) shall be operated by the Instructor.	C	C/NC	OTS	C	C		0.00%	0.00%		training variants should be identical in operation	0.00%	
2.3.1.2.05	0540	The SERE/SE Fit Training Variant(s) shall be operated by the User.	C	C/NC	OTS	C	C		0.00%	0.00%		training variants should be identical in operation	0.00%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.3.1.2.06	0553	The batter(ies) for the SERE/SE Fit Training Variant(s) shall be replaced by the Instructor.	C	C/NC	OTS	C	C	C	0.04%	0.04%	0.04%	Yes, with the correct training, manuals and tooling (if required).	0.04%	
2.3.2		**System Requirements/Support Functionality and Performance/Self-**							0.28%	0.60%	0.60%		**0.60%**	
2.3.2.1		**System Requirements/Support Functionality and Performance/Self-Tes**							0.09%	0.19%	0.19%		**0.19%**	
2.3.2.1.01	**0600**	When the system becomes armed, the system shall detect the connection and operational status of its RF functions. ~In the process of arming the system, the system conducts a general confidence check including antenna connection status. ~Without shielding the system, the RF status test can be performed without: - Exceeding the system EMC/EMI requirements. - Generating any RF transmissions detectable by the C-S Satellite System or SAR Assets.	C	C/NC	OTS	NC	C	C	0.00%	0.09%	0.09%	I can find no evidence to support their claim. The beacon can be initiated to check aerials but does not seem to do so when armed.	0.09%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.3.2.1.02	0592	While activated, the system shall automatically detect a change in the connection or operational status of its RF functions. ~Without User input or restarting the system: - The system detects any disconnection or reconnection of antenna components; - The system detects any failure or restoration of RF operational status associated with alerting, position detection and homing; - The system does not generate any additional RF transmissions specifically for test purposes.	C	C/NC	OTS	C	C	C	0.09%	0.09%	0.09%	To be achieved via a software change	0.09%	
2.3.2.2		**System Requirements/Support Functionality and Performance/Self-Tes**							0.19%	0.38%	0.38%		**0.38%**	
2.3.2.2.01	0348	*The system will have a full self-test that covers the built-in test requirements for type approval and standards compliance.*												

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.3.2.2.02	0436	The system full self-test shall determine overall system health. ~Performs an end-to-end test of all system components, including the scope of the RF status test.	C	C/NC	OTS	NC	C	C	0.00%	0.09%	0.09%	The baseline development document {FTD-650541-05569-1.0 Development Baseline} states that BIT covers the battery capacity, RF power (including 406), synthesizer Lock, RSSI, GPS receiver communication with controller and antenna failure. However there is no test evidence provided to prove the system performance. However, it is understood that the proposed EPLB from Ferranti is being derived from an existing EPLB the PRC-648T2, which already has this functional capability. There is high confidence that the company has the technical capability to meet the requirement.	0.09%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.3.2.2.03	0437	The system full self-test shall determine the health of the GNSS reception and position detection functions. ~Meets or exceeds self-test aspects of C/S T.007. ~Meets or exceeds self-test aspects of ED-62A.	C	C/NC	OTS	NC	C	C	0.00%	0.09%	0.09%	The tenderer's Built-in Test (BIT) tests the beacon transmitter, antenna and communication with the GNSS receiver. Their "Proof of Design (POD) for PRC-648T2 (EPLB) Cat. No. 21530902730" document details supplier testing undertaken on their EPLB using BT-611. This is a COSPAS/SARSAT beacon tester, testing against the full set of beacon signal parameters specified in C-S T.001 and T.007, and the supplier testing shows the EPLB passed the self-test aspects of the testing. The tenderer's system has been found to be compliant with the majority of the self-test aspects of ED-62A, with the exception of 'the duration of any transmission made during Self Test operation shall not exceed 3 sweeps.' Evidence of compliance with this has not been located in the tenderer's documents, with the only reference being on page 23 of FTD-650541-05569-1.0; 'The initiated BIT will also result in a transmission on the C-S frequency, but the synchronisation pattern of the message is altered (as required by C-S) so that the message is ignored by	0.09%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.3.2.2.04	0438	The system full self-test shall determine the health of the alert processing and transmission functions. ~Meets or exceeds self-test aspects of C/S T.007. ~Meets or exceeds self-test aspects of ED-62A.	C	C/NC	OTS	C	C	C	0.09%	0.09%	0.09%	No explicit test evidence is provided to demonstrate compliance. However, the proposed system is derived from a previous product that is in use which includes self-test functionality. From the stated behaviour of the baseline model {FTD-650541-05569-1.0 Development Baseline} it appears to meet the specifications for this requirement. Testing for the Tx power is inferred from the statement that there will be a transmission as part of a BIT. The synchronisation pattern is stated to be altered & references that this is a requirement in C/S, but no further details are given. Additionally the battery, LEDs, GNSS, antenna & transmitter are tested & pass/fail indicated. The baseline does not appear to meet the separate GNSS test requirements as there is no mention of this feature in the document. However, as the manufacturer already has the baseline product in service, there is high confidence that the Tenderer has the technical capability to meet this requirement	0.09%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.3.2.2.05	0439	The system full self-test shall determine the health of the homing processing and transmission functions. ~Meets or exceeds self-test aspects of C/S T.007. ~Meets or exceeds self-test aspects of ED-62A.	C	C/NC	OTS	C	C	C	0.09%	0.09%	0.09%	The tenderer's Built-in Test (BIT) tests the beacon transmitter, antenna and communication with the GNSS receiver. Their "Proof of Design (POD) for PRC-648T2 (EPLB) Cat. No. 21530902730" document details supplier testing undertaken on their EPLB using BT-611. This is a COSPAS/SARSAT beacon tester, testing against the full set of beacon signal parameters specified in C-S T.001 and T.007, and the supplier testing shows the EPLB passed the self-test aspects of the testing. The tenderer's system has been found to be compliant with the majority of the self-test aspects of ED-62A, with the exception of 'the duration of any transmission made during Self Test operation shall not exceed 3 sweeps.' Evidence of compliance with this has not been located in the tenderer's documents, with the only reference being on page 23 of FTD-650541-05569-1.0; 'The initiaited BIT will also result in a transmission on the C-S frequency, but the synchronisation pattern of the message is altered (as required by C-S) so that the message is ignored by	0.09%	
2.3.2.3		**System Requirements/Support Functionality and Performance/Self-Tes**							0.00%	0.04%	0.04%		**0.04%**	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.3.2.3.01	0417	The system shall log its battery usage since the last change of battery. ~ Applies only to the Live Operational Variant. ~Battery usage is: - Logged to the nearest minute for each period of use since changing the battery; - Stored for reporting on demand in hours or part hours.	C	C/NC	Dev	NC	C	C	0.00%	0.04%	0.04%	The MOP requires battery usage to be logged to the nearest minute and stored for on demand reporting. 4.2.7 of the response implies that a software mod will be introduced but it only mentions resolution to parts of hours. It is therefore assumed that the usage to the nearest minute will not be offered.	0.04%	
2.3.3		**System Requirements/Support Functionality and Performance/Mair**							0.71%	0.71%	0.71%		**0.71%**	
2.3.3.1		**System Requirements/Support Functionality and Performance/Maintena**							0.49%	0.49%	0.49%		**0.49%**	
2.3.3.1.01	0590	The battery usage report shall be initiated by the Maintainer.	C	C/NC	OTS	C	C	C	0.03%	0.03%	0.03%		0.03%	
2.3.3.1.02	0431	The battery shall be removed by the Maintainer.	C	C/NC	OTS	C	C	C	0.05%	0.05%	0.05%		0.05%	
2.3.3.1.03	0432	The battery shall be tested by the Maintainer.	C	C/NC	OTS	C	C	C	0.05%	0.05%	0.05%		0.05%	
2.3.3.1.04	0549	Rechargeable batteries shall be charged by the Maintainer.	C	C/NC	OTS	C	C	C	0.03%	0.03%	0.03%		0.03%	
2.3.3.1.05	0433	The battery shall be fitted by the Maintainer.	C	C/NC	OTS	C	C	C	0.05%	0.05%	0.05%		0.05%	
2.3.3.1.06	0434	The system full self-test shall be initiated by the Maintainer.	C	C/NC	OTS	C	C	C	0.05%	0.05%	0.05%		0.05%	
2.3.3.1.07	0466	The system shall be installed in Aircrew Clothing by the Maintainer.	C	C/NC	OTS	C	C	C	0.05%	0.05%	0.05%		0.05%	
2.3.3.1.08	0122	For wear by a Crew Member who uses an ejection seat, the automatic activation method shall be enabled by the Maintainer.	C	C/NC	OTS	C	C	C	0.05%	0.05%	0.05%		0.05%	
2.3.3.1.09	0082	The system shall be armed by the Maintainer.	C	C/NC	OTS	C	C	C	0.05%	0.05%	0.05%		0.05%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.3.3.1.10	0627	The Maintainer shall prepare system components for disposal.	C	C/NC	OTS	C	C	C	0.05%	0.05%	0.05%		0.05%	
2.3.3.2		**System Requirements/Support Functionality and Performance/Maintena**							0.22%	0.22%	0.22%		**0.22%**	
2.3.3.2.01	0572	The system shall provide any special-to-type tools required to maintain the system. ~If special-to-type tools are provided they shall meet or exceed the quality of in-service tools.	C	C/NA/NC	OTS	C	C	C	0.11%	0.11%	0.11%		0.11%	
2.3.3.2.02	0428	The system shall provide any special-to-type test equipment (STTE) needed to maintain the system. ~If special-to-type test equipment is provided it shall meet or exceed the maintenance duty cycle and maintenance environment requirements for the system.	C	C/NA/NC	OTS	C	C	C	0.11%	0.11%	0.11%		0.11%	
2.3.4		**System Requirements/Support Functionality and Performance/Pacl**							0.12%	0.12%	0.12%		**0.12%**	
2.3.4.01	0489	System packaging shall not degrade due to exposure to water (including water vapour).	C	C/NC	OTS	C	C	C	0.03%	0.03%	0.03%		0.03%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.3.4.02	0490	System packaging shall clearly identify its contents without needing to be opened. ~External packaging marked as a minimum with: - NATO Stock Number; - Item name; - Quantity; - Beacon identification (15 Hex ID); - Manufacturer's part number; - Manufacturing serial number; - Manufacturing batch number.	C	C/NC	OTS	C	C	C	0.02%	0.02%	0.02%		0.02%	
2.3.4.03	0491	System packaging shall clearly identify its contents without reference to a separate list. ~External packaging marked as a minimum with: - NATO Stock Number; - Item name; - Quantity; - Beacon identification (15 Hex ID); - Manufacturer's part number; - Manufacturing serial number; - Manufacturing batch number.	C	C/NC	OTS	C	C	C	0.02%	0.02%	0.02%		0.02%	
2.3.4.04	0559	The packaged system shall be portable without special handling.	C	C/NC	OTS	C	C	C	0.02%	0.02%	0.02%		0.02%	
2.3.4.05	0560	The unpackaged system shall be portable without special handling.	C	C/NC	OTS	C	C	C	0.02%	0.02%	0.02%		0.02%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.3.4.06	0557	The packaged system shall be transportable by all modes of transport. ~Complies with Def Stan 00-03. ~No restrictions on transport by commercial assets.	C	C/NC	OTS	C	C	C	0.02%	0.02%	0.02%		0.02%	
2.4		**System Requirements/Characteristics and Constraints**							8.14%	10.33%	10.87%		**11.80%**	
2.4.1		**System Requirements/Characteristics and Constraints/Type Appro**							0.99%	1.28%	1.28%		**1.28%**	
2.4.1.1		**System Requirements/Characteristics and Constraints/Type Approval/L**							0.76%	1.04%	1.04%		**1.04%**	
2.4.1.1.01	0174	The Live Operational Variant(s) shall achieve Cospas-Sarsat type approval covering all intended operational configurations. ~Meets or exceeds C-S Class —.	1	Class	Dev	1	1	1	0.49%	0.49%	0.49%	On the basis of the evidence provided in the tender, and CQ APS_FER_019, I am content that in all likelihood the beacon will obtain Class 1	0.49%	T: 2 O: 1
2.4.1.1.02	0307	All types of battery and antenna component used with the Live Operational Variant(s) shall achieve Cospas-Sarsat type approval, in all system configurations in which they may be employed. ~Meets or exceeds C-S Class —.	1	Class	Dev	2	1	1	0.00%	0.28%	0.28%	The battery was included in the tests referenced, but the antenna was not. I am content that the face value is Class 1, but given the antenna will be exposed, there is a risks associated with this. Hence Pess Class 2	0.28%	T: 2 O: 1
2.4.1.1.03	0177	The Live Operational Variant(s) shall be fully compliant with the applicable GNSS interface specifications.	C	C/NC	Dev	C	C		0.00%	0.00%		compatible chipset selected.	0.00%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.1.1.04	0309	All types of GNSS antenna component used with the Live Operational Variant(s) shall be fully compliant with the applicable GNSS interface specifications, in all system configurations in which they may be employed.	C	C/NC	Dev	C	C		0.00%	0.00%			0.00%	
2.4.1.1.05	0175	The Live Operational Variant(s) shall meet the applicable standards for personal locator beacons transmitting in the 121.5 MHz band. ~Meets or exceeds STANAG 7007 as applicable to PLBs	C	C/NC	OTS	C	C		0.00%	0.00%		Content with the evidence provided that through development this is achievable	0.00%	
2.4.1.1.06	0176	The Live Operational Variant(s) shall meet the applicable standards for personal locator beacons transmitting in the 243.0 MHz band. ~Meets or exceeds STANAG 7007 as applicable to PLBs	C	C/NC	OTS	C	C	C	0.14%	0.14%	0.14%	Content that with evidence provided, compliance can be achieved.	0.14%	
2.4.1.1.07	0308	All types of homing antenna component used with the Live Operational Variant(s) shall meet the applicable standards for personal locator beacons, in all system configurations in which they may be employed. ~Meets or exceeds STANAG 7007 as applicable to PLBs	C	C/NC	Dev	C	C	C	0.09%	0.09%	0.09%	Detail in the high level design implies this will be developed to be compliant. As such, content this is a low bar and compliancy can be achieved.	0.09%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.1.1.08	0380	The Live Operational Variant(s) shall meet the applicable aspects of civilian standards for aircraft emergency location transmitters. ~Meets or exceeds aspects of ED-62A applicable to ELT (S) Class B (non-buoyant)	C	C/NC	OTS	C	C	C	0.04%	0.04%	0.04%	Based on the evidence provided and that in CQ APS_FER-020, this can be achieved. Hence, compliant with minimal risk.	0.04%	
2.4.1.2		**System Requirements/Characteristics and Constraints/Type Approval/S**							0.24%	0.24%	0.24%		**0.24%**	
2.4.1.2.01	**0375**	The SAR Training Variant shall meet the applicable standards for personal locator beacons transmitting in the 122.55 MHz band ~Meets or exceeds STANAG 7007 as applicable to PLBs.	C	C/NC	OTS	C	C	C	0.05%	0.05%	0.05%	Document D01 - PRC-648T2 POD covers both the tests that are to be conducted to prove compliance with this requirement as well as preliminary test results from tests that have been conducted by the tenderer. The test results are shown to have fallen within the required results limits for the different parameters under test. Under STANAG 7007 the beacon is to be compliant with C-S T.001, this had been determined to have been met in requirement ID 362. The tests do not cover all requirements of STANAG 7007 (test evidence on speech mode and environmental testing in wind cannot be located). However, based on the evidence that has been provided, there is high confidence that the tenderer will meet this requirement.	0.05%	
2.4.1.2.02	**0377**	The SAR Training Variant shall meet the applicable standards for personal locator beacons transmitting in the 245.1 MHz band ~Meets or exceeds STANAG 7007 as applicable to PLBs.	C	C/NC	OTS	C	C	C	0.09%	0.09%	0.09%	As stated in Development Baseline it is based on live version and read across is as such valid evidence.	0.09%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.1.2.03	0378	All types of homing antenna component used with the SAR Training Variant shall meet the applicable standards for personal locator beacons, in all system configurations in which they may be employed. ~Meets or exceeds STANAG 7007 as applicable to PLBs.	C	C/NC	OTS	C	C	C	0.09%	0.09%	0.09%	QQ. this means gain pattern to get the range and elevation we stated. QQ homing range calcs demonstrate this is likely	0.09%	
2.4.2		**System Requirements/Characteristics and Constraints/Environmer**							1.31%	1.49%	1.70%		**1.70%**	
2.4.2.1		**System Requirements/Characteristics and Constraints/Environment/Op**							0.74%	0.86%	1.07%		**1.07%**	
2.4.2.1.01	0523	*The operational environment applies to the Live Operational Variant(s).*												
2.4.2.1.02	0104	The system shall meet the operational requirements in all specified survival environments world-wide.	2	Status	OTS	1	**1**	2	0.00%	0.00%	0.21%	Overruled to threshold on face value as OTS evidence not present nor plan to do development. where does "antenna blown over in a strong wind" factor in this testing?	0.21%	LH02

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.2.1.03	0263	The system shall operate worldwide up to 15000 feet above sea level.	C	C/NC	OTS	C	C	C	0.14%	0.14%	0.14%	SRD 169, IDO 263 of the Evidence Index Document refers to 'Other' documents with links. This link does not work and after manually searching folders looking for the D84 Environmental Test Report, Sec 2, this document cannot be located to comment upon. However, after further searching of other available documents, the document FTD-650541-05576-0.9 Qualification Test Plan for the Emergency Personal Locator Beacon did appear to contain evidence that Altitude testing up to 70000 feet and Rapid Change of Pressure environmental testing would be conducted (15000 to 70000 feet and 70000 to 15000 feet), indicating that the testing aims to meet the requirements of IDO 263	0.14%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.2.1.04	0264	The system shall operate worldwide up to 47000 feet above sea level.	C	C/NC	OTS	C	C	C	0.10%	0.10%	0.10%	SRD 170, IDO 264 of the Evidence Index Document refers to 'Other' documents with links. This link does not work and after manually searching folders looking for the D84 Environmental Test Report, Sec 2, this document cannot be located to comment upon. However, after further searching of other available documents, the document FTD-650541-05576-0.9 Qualification Test Plan for the Emergency Personal Locator Beacon did appear to contain evidence that Altitude testing up to 70000 feet and Rapid Change of Pressure environmental testing would be conducted (15000 to 70000 feet and 70000 to 15000 feet), indicating that the testing aims to meet the requirements of IDO 264	0.10%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.2.1.05	0570	The system shall operate worldwide up to 70000 feet above sea level.	C	C/NC	OTS	C	C	C	0.08%	0.08%	0.08%	SRD 171, IDO 570 of the Evidence Index Document refers to 'Other' documents with links. This link does not work and after manually searching folders looking for the D84 Environmental Test Report, Sec 2, this document cannot be located to comment upon. However, after further searching of other available documents, the document FTD-650541-05576-0.9 Qualification Test Plan for the Emergency Personal Locator Beacon did appear to contain evidence that Altitude testing up to 70000 feet and Rapid Change of Pressure environmental testing would be conducted (15000 to 70000 feet and 70000 to 15000 feet), indicating that the testing aims to meet the requirements of IDO 570	0.08%	
2.4.2.1.06	0098	The system shall meet the operational requirements in Climatic Categories A1 to A3, B1 to B3, C0 to C2 and M1 to M3.	C	C/NC	OTS	C	C	C	0.14%	0.14%	0.14%	The evidence index document refers to documents D58, D59, D60 and D75 which cannot be located. Document FTD-650541-05576-0.9 Qualification Test Plan for the Emergencey Personal Locator Beacon Para 8.2.2 specifies the Def Stan prcodeures to be used for testing. These cross reference the climatic categories listed in the requirements. This evidence should therefore satisfy the requirements	0.14%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.2.1.07	0100	The system shall meet the operational requirements in all land meteorological conditions listed at Part 4 within all specified Climatic Categories.	C	C/NC	OTS	C	C	C	0.14%	0.14%	0.14%	The evidence index document refers to documents D58, D59, D60 and D75 which cannot be located. Document FTD-650541-05576-0.9 Qualification Test Plan for the Emergency Personal Locator Beacon Para 8.2.2 specifies the Def Stan procedures to be used for testing. These cross reference the climatic categories listed in the requirements. This evidence should therefore satisfy the requirements.	0.14%	
2.4.2.1.08	0101	The system shall meet the operational requirements in Sea States 0 to 6 in all specified Climatic Categories.	2	Status	OTS	1	2	2	0.07%	0.14%	0.14%	Wave effect analysis cited	0.14%	LH01
2.4.2.1.09	0102	The system shall meet the operational requirements in Sea States 7 to 8 in all specified Climatic Categories. ~Satisfactory analysis that system will meet aggregate Threshold MoPs for applicable requirements based on environmental testing in salt water.	C	C/NC	OTS	C	C	C	0.07%	0.07%	0.07%	Wave effect analysis cited	0.07%	
2.4.2.1.10	0103	The system shall meet the operational requirements in Sea State 9 in all specified Climatic Categories. ~Satisfactory analysis that system will meet aggregate Threshold MoPs for applicable requirements based on environmental testing in salt water.	C	C/NC	OTS	NC	C	C	0.00%	0.05%	0.05%	PESS NC as at beaufort 12 there is little chance of the antenna remaining upright. the ratio of time when LOs is possible and not possible due to spray will be unfavourable for meeting the high hit rate requirements.	0.05%	
2.4.2.2		**System Requirements/Characteristics and Constraints/Environment/Tra**							0.24%	0.30%	0.30%		**0.30%**	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.2.2.01	0529	The SAR Training Variant shall meet the homing training requirements in Climatic Categories A1 to A3, B1 to B3, C0 to C2 and M1 to M3.	C	C/NC	OTS	C	C	C	0.05%	0.05%	0.05%	Ref SRD ID 177. Document D59/D60 Para 2 details the standards and specifications applicable for the testing which includes DEF Stan 00-35 Part 3 and Part 4 which include the environmental conditions and test methods. Para 4 states that 'EPLB system design provides protection against all forms of meteorological conditions commonly associated with operations and storage in a worldwide environment'. Table 1 presents a checklist of the EPLB tests as described in EPLB v1.2 para 4.2. Doc D58 lists the environmental tests which the T2 unit has passed. FTD-650541-05456-1.0 System Engineering Plan, p10, refers to the SAR and SERE variants as part of the 'overall EPLB system'. As it is the 'system' that is under test then the training variant should meet the same requirements as the operational variant and as such should meet this requirement	0.05%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.2.2.02	0530	The SAR Training Variant shall meet the homing training requirements in all land meteorological conditions listed at Part 4 in all Climatic Categories specified for SAR Training.	C	C/NC	OTS	C	C	C	0.05%	0.05%	0.05%	Ref SRD ID 177. Document D59/D60 Para 2 details the standards and specifications applicable for the testing which includes DEF Stan 00-35 Part 3 and Part 4 which include the environmental conditions and test methods. Para 4 states that 'EPLB system design provides protection against all forms of meteorological conditions commonly associated with operations and storage in a worldwide environment'. Table 1 presents a checklist of the EPLB tests as described in EPLB v1.2 para 4.2. Doc D58 lists the environmental tests which the T2 unit has passed.FTD-6 50541-05456-1.0 System Engineering Plan, p10, refers to the SAR and SERE variants as part of the 'overall EPLB system'. As it is the 'system' that is under test then the training variant should meet the same requirements as the operational variant and as such should meet this requirement	0.05%	
2.4.2.2.03	0531	The SAR Training Variant shall meet the homing training requirements under foliage as listed at Part 4.	C	C/NC	OTS	NC	C	C	0.00%	0.04%	0.04%	No specific evidence for performance under foliage can be found although the link budget calculations and antenna development plan would suggest an attempt to maximise system RF performance and hence an attempt to satisfy the spirit of this requirement. Given that specific evidence is not forthcoming it is necessary to award a PESS mark of NC	0.04%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.2.2.04	0532	The SAR Training Variant shall meet the homing training requirements in Sea States 0 to 6. ~In salt and fresh water.	C	C/NC	OTS	C	C	C	0.05%	0.05%	0.05%	The evidence index document refers to document D44 Sea State Impact Analysis. This document carries out a thorough and detailed analysis and concludes that 'no effect is anticipated on EPLB system performace due to sea state' and that the beacon is sealed and electronic components 'will not be damaged by sea water'. However, the document does not specifically list the SAR training variant but the System Engineering plan treats both SERE and SAR variants as part of the EPLB 'system' and highlights significant commonality of design to support compliance with this SR.	0.05%	
2.4.2.2.05	0528	The SERE/SE Fit Training Variant(s) shall meet the in-water and classroom training requirements in Climatic Categories A3 and C0. ~In salt, chlorinated and fresh water.	C	C/NC	OTS	C	C	C	0.05%	0.05%	0.05%	Testing evidence provided is sufficient however there remain some concerns (particularly from the QinetiQ SMEs) over the scope and lack of independence of the functional testing; the sample size of 1 is also a cause of minor concern however these issues could all be rectified on contract hence a compliant score is appropriate.The document does not specifically list the SERE/SE Fitt training variant but the System Engineering plan treats both SERE and SAR variants as part of the EPLB 'system' and highlights significant commonality of design to support compliance with this SR.	0.05%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.2.2.06	0533	The SERE/SE Fit Training Variant(s) shall meet the in-water training requirements in swimming pools. ~In chlorinated water	C	C/NC	OTS	NC	C	C	0.00%	0.03%	0.03%	Although the provided evidence is detailed and thorough none of the evidence documents contain reference to whether the EPLB will meet the requirements in chlorinated water which is the main water borne environment in which the SERE/SE Fitt training variant will be deployed.	0.03%	
2.4.2.2.07	0580	The SERE/SE Fit Training Variant(s) shall meet the in-water training requirements in Sea States 0 to 6. ~In salt and fresh water.	C	C/NC	OTS	C	C	C	0.05%	0.05%	0.05%	The evidence index document refers to document D44 Sea State Impact Analysis. This document carries out a thorough and detailed analysis and concludes that 'no effect is anticipated on EPLB system performace due to sea state' and that the beacon is sealed and electronic components 'will not be damaged by sea water'. However, the document does not specifically list the SAR training variant but the System Engineering plan treats both SERE and SAR variants as part of the EPLB 'system' and highlights significant commonality of design to support compliance with this SR.	0.05%	
2.4.2.3		**System Requirements/Characteristics and Constraints/Environment/Ma**							0.09%	0.09%	0.09%		**0.09%**	
2.4.2.3.01	0152	The system shall withstand maintenance in Survival Equipment bays in Climatic Categories A3 and C0.	C	C/NC	OTS	C	C	C	0.09%	0.09%	0.09%	Generally high standard of evidence which provides a reasonable level of confidence. My only reservation would be the read across from DEF-STAN to MIL-STD and whether they are equally stringent.	0.09%	
2.4.2.4		**System Requirements/Characteristics and Constraints/Environment/Sto**							0.24%	0.24%	0.24%		**0.24%**	
2.4.2.4.01	0259	System components other than batteries shall be storable without degradation for at least the planned in-service period in Climatic Categories A3 and C0.	C	C/NC	OTS	C	C	C	0.09%	0.09%	0.09%		0.09%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.2.4.02	0260	Batteries shall be storable without degradation for at least 12 months in Climatic Categories A3 and C0.	C	C/NC	OTS	C	C	C	0.09%	0.09%	0.09%		0.09%	
2.4.2.4.03	0261	Batteries shall be storable without degradation for at least 6 months in Climatic Categories A2 and C1.	C	C/NC	OTS	C	C	C	0.05%	0.05%	0.05%		0.05%	
2.4.2.5		**System Requirements/Characteristics and Constraints/Environment/En**							0.00%	0.00%	0.00%		**0.00%**	
2.4.2.5.01	0312	The system shall be fully compliant with the environmental aspects of the EPLB Safety and Environmental (S&E) Case.	C	C/NC	OTS	C	C		0.00%	0.00%		evidence, while not linked, was found to demonstrate that compliance on contract is likely	0.00%	
2.4.2.5.02	0158	The system shall comply with current and impending UK Environmental Legislation.	C	C/NC	OTS	C	C		0.00%	0.00%		evidence, while not linked, was found to demonstrate that compliance on contract is likely	0.00%	
2.4.2.5.03	0159	The system shall comply with current and impending EU Environmental Legislation.	C	C/NC	OTS	C	C		0.00%	0.00%		evidence, while not linked, was found to demonstrate that compliance on contract is likely	0.00%	
2.4.3		**System Requirements/Characteristics and Constraints/Operability a**							1.38%	1.77%	1.87%		**1.91%**	
2.4.3.1		**System Requirements/Characteristics and Constraints/Operability and**							0.63%	0.84%	0.84%		**0.84%**	
2.4.3.1.01	0453	The system shall not impede Crew Member actions.	C	C/NC	OTS	C	C		0.00%	0.00%		The size, shape and method of use are no worse than current items and should not adversely affect crew performance.	0.00%	
2.4.3.1.02	0134	The system shall not impede the Crew Member when using other survival equipment.	C	C/NC	OTS	C	C	C	0.11%	0.11%	0.11%	The size, shape and method of use are no worse than current items and should not adversely affect crew performance.	0.11%	
2.4.3.1.03	0096	The system shall be operable effectively in all specified survival situations.	C	C/NC	OTS	C	C	C	0.14%	0.14%	0.14%	The evidence suggests that this is correct, however, independent testing by DSTO is advised.	0.14%	
2.4.3.1.04	0504	The system shall be operable effectively in all specified Climatic Categories.	C	C/NC	OTS	C	C	C	0.14%	0.14%	0.14%	The evidence suggests that this is correct, however, further analysis by RAFCAM should be tasked.	0.14%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.3.1.05	0099	The system shall be operable effectively at all times of day and night within all specified Climatic Categories.	C	C/NC	OTS	C	C	C	0.08%	0.08%	0.08%	The mode switch has a luminescent coating and the modes of operation are highlighted by the LEDs and audible tones. These need to be implemented at the installed system level	0.08%	
2.4.3.1.06	0173	The system shall be fully operable while tethered against accidental loss.	C	C/NC	OTS	C	C	C	0.05%	0.05%	0.05%	The unit has a tether attachment point however, no length of tether was provided.	0.05%	
2.4.3.1.07	0422	The system controls shall be operable with single actions by the User. ~All control functions involve only movements that are simple, straightforward and intuitive.	C	C/NC	OTS	C	C	C	0.12%	0.12%	0.12%	The mode selector switch is a simple sliding switch that can be operated with a single finger. Each position has a soft 'stop' mechanism to hold it in place.	0.12%	
2.4.3.1.08	0072	The system shall facilitate correct operation of the intended function. ~On each control action, the intended result is easily and positively achieved at the first attempt. ~On relevant control actions, the activation state changes as intended. ~Accidental operation of controls is highly unlikely by design.	C	C/NC	OTS	NC	C	C	0.00%	0.21%	0.21%	PESS NC as accidental operation is easily possible as you can overshoot the intended switch position	0.21%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.3.1.09	0232	The SERE/SE Fit Training Variant(s) shall have the same user interface as the corresponding Live Operational Variant(s), except as specified or constrained by other related requirements.	C	C/NC	Dev	C	C		0.00%	0.00%		The evidence suggest that this will be the case, the trg variant will be clearly identifiable with no transferrable components.	0.00%	
2.4.3.2		**System Requirements/Characteristics and Constraints/Operability and**							0.53%	0.53%	0.53%		**0.53%**	
2.4.3.2.01	0074	The system shall facilitate manual operation with one hand.	C	C/NC	OTS	C	C	C	0.11%	0.11%	0.11%	The activation toggle and lanyard can be activated using one hand and the mode selector switch can be moved using a single finger.	0.11%	
2.4.3.2.02	0073	The system shall facilitate ambidextrous manual operation.	C	C/NC	OTS	C	C	C	0.11%	0.11%	0.11%	The system allows ambidextrous use.	0.11%	
2.4.3.2.03	0343	The system shall be operable effectively while the User is wearing UK military flying gloves.	C	C/NC	OTS	C	C	C	0.11%	0.11%	0.11%	The system is low profile whilst still allowing use using standard aircrew flying gloves.	0.11%	
2.4.3.2.04	0344	The system shall be operable effectively while the User has numb hands.	C	C/NC	OTS	C	C	C	0.11%	0.11%	0.11%	The system should be operable with reduced dexterity.	0.11%	
2.4.3.2.05	0217	The system controls shall be manually operable while the antenna(s) remain installed in Aircrew Clothing or a Life Raft.	2	Status	OTS	2	2	2	0.08%	0.08%	0.08%	this is achieveable, notwithstanding the acceptibility of the controls as they stand	0.08%	LH01
2.4.3.3		**System Requirements/Characteristics and Constraints/Operability and**							0.00%	0.11%	0.11%		**0.11%**	
2.4.3.3.01	0606	*The requirements in this section relate specifically to operability during flight and are in addition to all other operability requirements applicable in context.*												
2.4.3.3.02	0081	The system shall facilitate arming by the Crew Member during flight. ~The User can arm the system without impeding flight operations.	C	C/NC	Dev	NC	C	C	0.00%	0.04%	0.04%	dependent on acceptibilty of opening LSJ pocket and DISTURBING THE SYSTEM	0.04%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.3.3.03	0080	The system shall facilitate disarming by the Crew Member during flight. ~The User can disarm the system without impeding flight operations.	C	C/NC	Dev	NC	C	C	0.00%	0.04%	0.04%	dependent on acceptibilty of opening LSJ pocket and DISTURBING THE SYSTEM	0.04%	
2.4.3.3.04	0265	The system shall facilitate arming/disarming with one hand during flight. ~The User can access the relevant control(s) with one hand while the system remains installed in Aircrew Clothing and without impeding flight operations.	C	C/NC	Dev	NC	C	C	0.00%	0.04%	0.04%	Whilst as far as I can see the controls are all INSIDE the SEALED pocket of the LSJ and there doesn't appear to have any sort of remote, the on/off/mode slider can be operated whilst the PLB is inside the pocket, though this seems a hit and miss operation hence PESS NC	0.04%	
2.4.3.4		**System Requirements/Characteristics and Constraints/Operability and**							0.21%	0.29%	0.38%		**0.42%**	
2.4.3.4.01	0214	The antenna(s) shall be manually reinstalled by the User in the antenna sleeve of a Life Raft with a beacon pocket.	2	Status	Dev	1	2	2	0.04%	0.08%	0.08%	In some LSJs the external antennae may need to be temporarily seperated to move from the LSJ to the Liferaft	0.08%	LH01
2.4.3.4.02	0645	The antenna(s) shall be transferred by the User to the antenna sleeve of a Life Raft without a beacon pocket. ~No need to separate and reconnect antenna components from/to each other or the beacon component. ~No loss of functionality or performance.	C	C/NC	Dev	C	C	C	0.08%	0.08%	0.08%	The development baseline 2..9.6.1.2 states the following: A survivor using a single-seat life raft can transfer the antenna to the antenna sleeve without the need for any additional support; the fitment on the stole (see Figure 11) will support the antenna in the correct position. The auxiliary antenna is connected to the Beacon Unit by a black 1.5m co-axial cable. This, together with our antenna fitting, allows the EPLB to be transferred to a multi-seat life raft without modification (see Figure 13 – EPLB, RF Antenna and GNSS Antenna fitted to Life	0.08%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.3.4.03	0468	The system shall be manually reinstalled by the User in a Life Raft with a beacon pocket.	2	Status	Dev	1	1	1	0.04%	0.04%	0.04%	In the view of the RAFCAM SMEs and having completed trials on certain LSJs the external antennae may need to be temporarily separated to move from the LSJ to the Liferaft stowage, the system however, has integral antennae which 'take over' during this process. Accordingly it is the authorities opinion that the bid position only meets the threshold MOP	0.08%	LH01
2.4.3.4.04	0469	The system shall be manually transferred by the User from a Life Raft to Aircrew Clothing.	2	Status	Dev	1	1	2	0.04%	0.04%	0.08%	POSS OVERRULED facet to threshold: this cannot be fully installed without detaching asomething ie.e it can't just be threaded through whatever holes are necessary.	0.08%	LH01
2.4.3.4.05	0218	The system shall be reinstalled or transferred by the User without loss of functionality or performance.	2	Status	Dev	1	1	2	0.06%	0.06%	0.11%	OVERRULED FACE to threshold. In some LSJs the external antennae may need to be temporarily seperated to move from the LSJ to the Liferaft stowage	0.11%	LH01
2.4.4		**System Requirements/Characteristics and Constraints/Endurance**							0.08%	0.20%	0.26%		**0.83%**	
2.4.4.01	0298	*Endurance will be tested with the battery in a condition equivalent to having reached its expiry date. Factors such as ageing, current drain while a beacon is not activated, self-testing and manufacturing variations are taken into account by the C/S T.007 and EUROCAE ED-62A test specifications. STANAG 7007 takes a statistical approach.*												

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.4.02	0094	When activated, the Live Operational Variant(s) shall have an endurance of at least — hours continuous operation within -20 to +55 degrees C at any relative humidity.	35.0	hours	OTS	25.0	35.0	35.0	0.01%	0.12%	0.12%	D24 references a C-S beacon test report for testing an EPLB S/# 002 and the test duration was 25h 13m @ -40ºC. Para 11 defines the operation as 25.25h. It is assumed that the unit was powered by the battery during the test and the battery was the BCX D cell (not stated or confirmed) also humidity (RH) not defined. The QinetiQ Subteam Assessment sheet defines the Face Perf @ 35h which has not been met. Although not referenced by the Tenderer the Development Baseline para 2.9.4 states that the PRC-648T2 uses the BCX85 D Cell and on C-S triple mode test the battery exceeded 35 hours @ -20ºC. Had this been referenced it would have been acceptable evidence. That said we know the product offered will be an enhanced version T4 which may have different battery consumption characteristics.	0.26%	T: 24 O: 48
2.4.4.03	0320	When activated, the Live Operational Variant(s) shall have an endurance of at least — hours continuous operation within -40 to +55 degrees C at any relative humidity.	25.0	hours	OTS	25.0	25.0	25.2	0.02%	0.02%	0.02%	D24 identifies the test operation at 25h 13m which exceeds the Face Perf requirement of 25.0h. Evidence D63 is unreferenced but the document offered relates to a training variant battery whereas this requirement is for the operational variant and is therefore inadmissible.	0.39%	T: 24 O: 48
2.4.4.04	0397	When activated, the SAR Training Variant shall have an endurance of at least — hours continuous operation within -30 to +55 degrees C at any relative humidity.	18.0	hours	Dev	15.0	18.0	22.0	0.02%	0.03%	0.04%	Testing evidence provided to show 20.2Hrs Endurance at -30C	0.10%	T: 8 O: 40

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.4.05	0398	When activated, the SERE/SE Fit Training Variant(s) shall have an endurance of at least — hours continuous operation within 0 to +55 degrees C at any relative humidity.	40.0	hours	Dev	22.2	**22.2**	40.0	0.04%	0.04%	0.08%	OVERRULED face = tested value: The evidence provided states 22.2Hrs endurance at 0C, OPT left at bid claim of 40	0.08%	T: 8 O: 40
2.4.5		**System Requirements/Characteristics and Constraints/Survivability**							1.40%	1.94%	1.94%		**1.94%**	
2.4.5.1		**System Requirements/Characteristics and Constraints/Survivability/Ge**							0.39%	0.39%	0.39%		**0.39%**	
2.4.5.1.01	0155	The system shall be re-usable after activation.	C	C/NC	OTS	C	C	C	0.17%	0.17%	0.17%		0.17%	
2.4.5.1.02	0153	The system shall withstand frequent wear in demanding environments.	C	C/NC	OTS	C	C	C	0.14%	0.14%	0.14%		0.14%	
2.4.5.1.03	0151	The system shall withstand the AEA and SE maintenance cycle. ~ Including full self-tests and RF status tests.	C	C/NC	OTS	C	C	C	0.08%	0.08%	0.08%		0.08%	
2.4.5.2		**System Requirements/Characteristics and Constraints/Survivability/Sh**							0.00%	0.00%	0.00%		**0.00%**	
2.4.5.2.01	0331	The system shall withstand an explosive decompression corresponding to a change of pressure of at least 570 hectopascals at up to 70000 feet above sea level.	C	C/NC	OTS	C	C		0.00%	0.00%		Testing evidence provided is sufficient however there remain some concerns (particularly from the QinetiQ SMEs) over the scope and lack of independence of the functional testing; the sample size of 1 is also a cause of minor concern however these issues could all be rectified on contract hence a compliant score is appropriate.	0.00%	
2.4.5.2.02	0107	The system shall survive the shock spectra specified in Def Stan 00-35 Pt 3 Tests M5, M11 and M12. ~Tested in accordance with the EPLB LCEP at SRD Pt 4 Section 4.2.1.	C	C/NC	OTS	C	C		0.00%	0.00%		Testing evidence provided is sufficient however there remain some concerns (particularly from the QinetiQ SMEs) over the scope and lack of independence of the functional testing; the sample size of 1 is also a cause of minor concern however these issues could all be rectified on contract hence a compliant score is appropriate.	0.00%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.5.2.03	0105	The system shall continue to operate fully during and after experiencing the shock spectra specified in Def Stan 00-35 Pt 3 Tests M5, M6 and M13. ~Tested in accordance with the EPLB LCEP at SRD Pt 4 Section 4.2.1.	C	C/NC	OTS	C	C		0.00%	0.00%		Testing evidence provided is sufficient however there remain some concerns (particularly from the QinetiQ SMEs) over the scope and lack of independence of the functional testing; the sample size of 1 is also a cause of minor concern however these issues could all be rectified on contract hence a compliant score is appropriate.	0.00%	
2.4.5.2.04	0106	The system shall continue to operate fully during and after experiencing the vibration spectra specified in Def Stan 00-35 Pt 3 Tests M1. ~Tested in accordance with the EPLB LCEP at SRD Pt 4 Section 4.2.1.	C	C/NC	OTS	C	C		0.00%	0.00%		Testing evidence provided is sufficient however there remain some concerns (particularly from the QinetiQ SMEs) over the scope and lack of independence of the functional testing; the sample size of 1 is also a cause of minor concern however these issues could all be rectified on contract hence a compliant score is appropriate.	0.00%	
2.4.5.2.05	0109	The system shall continue to operate fully during and after experiencing the drop, topple and roll conditions specified in Def Stan 00-35 Pt 3 Test M4. ~Tested in accordance with the EPLB LCEP at SRD Pt 4 Section 4.2.1.	C	C/NC	OTS	C	C		0.00%	0.00%		Testing evidence provided is sufficient however there remain some concerns (particularly from the QinetiQ SMEs) over the scope and lack of independence of the functional testing; the sample size of 1 is also a cause of minor concern however these issues could all be rectified on contract hence a compliant score is appropriate.	0.00%	
2.4.5.3		**System Requirements/Characteristics and Constraints/Survivability/Imr**							0.28%	0.28%	0.28%		**0.28%**	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.5.3.01	0110	The system shall automatically return to its previous operating state without loss of function or performance immediately after immersion in water to a depth of at least 10 metres for at least 5 minutes. ~All system components, including antennas and connectors, survive immersion and return to their previous operating state without User intervention. ~Tested in salt and fresh water.	C	C/NC	OTS	C	C	C	0.14%	0.14%	0.14%	Good evidence of testing to 1 ATM (10m) on a production unit to the requisite depth carried out by an independent test house.Testing evidence provided is sufficient however there remain some concerns (particularly from the QinetiQ SMEs) over the scope and lack of independence of the functional testing; the sample size of 1 is also a cause of minor concern however these issues could all be rectified on contract hence a compliant score is appropriate.	0.14%	
2.4.5.3.02	0108	The system shall meet the requirements while all components except the antenna(s) are continuously immersed in water. ~All beacon and battery components, connections and non-receiving/non-radiating antenna components, operate fully and continuously during immersion, without User intervention. ~Tested in salt and fresh water over the period of maximum battery endurance in the installed configurations iaw the marine survival use case.	C	C/NC	OTS	C	C	C	0.14%	0.14%	0.14%	Good evidence of testing to 1 ATM (10m) on a production unit to the requisite depth carried out by an independent test house, the duration of 6 minutes would require increasing for future testing to prove the 'beacon and battery components' could be continuosly immersed.Testing evidence provided is sufficient however there remain some concerns (particularly from the QinetiQ SMEs) over the scope and lack of independence of the functional testing; the sample size of 1 is also a cause of minor concern however these issues could all be rectified on contract hence a compliant score is appropriate.	0.14%	
2.4.5.4		**System Requirements/Characteristics and Constraints/Survivability/Acc**							0.05%	0.06%	0.06%		**0.06%**	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.5.4.01	0130	The system shall be tethered when installed in Aircrew Clothing. ~Tethering point can bear a static load of at least 600 Newtons.	C	C/NC	OTS	NC	C	C	0.00%	0.02%	0.02%	Looks like it might snap off.	0.02%	
2.4.5.4.02	0133	The system shall be tethered when installed in a Life Raft.	C	C/NC	OTS	C	C	C	0.02%	0.02%	0.02%	the evidence would suggest that this will be possible	0.02%	
2.4.5.4.03	0131	When operated in a survival situation, the system shall be continuously tethered. ~Tethering point can bear a static load of at least 600 Newtons.	C	C/NC	OTS	C	C	C	0.01%	0.01%	0.01%	the photo looks like it would snap off under 600 n load	0.01%	
2.4.5.4.04	0132	The system shall meet the requirements while tethered.	C	C/NC	OTS	C	C	C	0.02%	0.02%	0.02%	Ensuring that the tether is the required length will ensure that its effectiveness is not reduced.	0.02%	
2.4.5.5		**System Requirements/Characteristics and Constraints/Survivability/Fur**							0.26%	0.79%	0.79%		**0.79%**	
2.4.5.5.01	**0145**	The system shall continue to transmit alerts in the event of degradation or failure of its position detection function. ~All alerts contain valid or default position data. ~Once a valid position has been determined, all alerts report this position unless either (a) 5 minutes has elapsed and a more up-to-date position has been determined, or (b) the position is more than 4 hours old.	C	C/NC	OTS	C	C	C	0.26%	0.26%	0.26%	CS T007 test A3.8 tests 406 tx in the absence of GPS feed. Additionally FMECA doesn't identify any GNSS failure modes that would effect 406Tx	0.26%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.5.5.02	0143	The system shall continue to transmit alerts in the event of degradation or failure of its ability to transmit homing signals.	C	C/NC	OTS	NC	C	C	0.00%	0.26%	0.26%	Based on the evidence in the hardware design, I believe that to a reasonable level, there is enough separation. True separation would only be via two independent devices.	0.26%	
2.4.5.5.03	0144	The system shall continue to transmit homing signals in the event of degradation or failure of its ability to transmit alerts.	C	C/NC	OTS	NC	C	C	0.00%	0.26%	0.26%	Based on the evidence in the hardware design, i believe that to a reasonable level, there is enough separation. True separation would only be via two independant devices.	0.26%	
2.4.5.6		**System Requirements/Characteristics and Constraints/Survivability/Ant**							0.41%	0.41%	0.41%		**0.41%**	
2.4.5.6.01	0630	If antenna component(s) are removable, the system shall survive being activated while one or more antenna assembl(ies) are incomplete. ~The system shall survive being activated with any incomplete configuration of removable antennas or antenna cables. ~Once fully configured as intended, the system shall continue its normal activation sequence or ongoing operation without loss of functionality, performance, data or change of operating state apart from that due to the relevant lack of RF capability while incompletely configured.	C	C/NA/NC	OTS	C	C	C	0.21%	0.21%	0.21%	currently doesnt re select Aux Ae but sw mod planned to change that.	0.21%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.5.6.02	0631	If antenna component(s) are removable, the system shall survive antenna reconfiguration while activated. ~The system shall survive the removal of any or all antennas or antenna cables that are designed to be removable. ~Once restored to the complete configuration intended, the system shall continue operating without loss of functionality, performance, data or change of operating state apart from that due to the relevant lack of RF capability while incompletely configured.	C	C/NA/NC	OTS	C	C	C	0.21%	0.21%	0.21%	currently doesnt re select Aux Ae but sw mod planned to change that.	0.21%	
2.4.6		**System Requirements/Characteristics and Constraints/Compatibilit**							0.58%	0.87%	0.87%		**0.87%**	
2.4.6.1		**System Requirements/Characteristics and Constraints/Compatibility/EM**							0.28%	0.57%	0.57%		**0.57%**	
2.4.6.1.01	0507	The system shall not radiate E-Field emissions that cause interference to other equipment during aircraft operation. ~Meets Def Stan 59-411 Part 3 Test DRE01.B Graph at Figure 92, for a helicopter equipment.	C	C/NC	OTS	NC	C		0.00%	0.00%		Report D67 EMC Test Report states the equipment is compliant with Def Stan 59-411 DRE01.A but the results indicate that it is not. D67 EMC Eng Report, MIL STD RE102 results are classed as 'fail' and the limit is more relaxed than the DRE01.B requirement. CQ FER 32 challenges this statement. further clarification required, however, face score unaffected.	0.00%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.6.1.02	0508	The system shall not radiate H-Field emissions that cause interference to other equipment during aircraft operation. ~Meets Def Stan 59-411 Part 3 Test DRE02.B Graph at Figure 98.	C	C/NC	OTS	NC	C		0.00%	0.00%		The D67 EMC Test Report shows no evidence DRE02.B testing has been conducted and the document D67 EMC Eng Report shows no evidence that RE101 testing has been conducted, therefore there is no evidence showing compliance with the DRE02.B requirement.	0.00%	
2.4.6.1.03	0646	The system shall comply with EMC Directive 2004/108/EC as per Annex F of Def Stan 59-411 Part 1.	C	C/NC	OTS	C	C		0.00%	0.00%		The two EMC test reports referenced as evidence would provide useful information towards achieving the SRD requirement of compliance with the EMC directive.	0.00%	
2.4.6.1.04	0509	The system shall meet the requirements after exposure to radiated E-Fields. ~Meets Def Stan 59-411 Part 3 Test DRS02.B Graphs at Figures 106 and 107.	C	C/NC	OTS	NC	C	C	0.00%	0.11%	0.11%	The D67 EMC Test Report shows no evidence DRS02 testing has been conducted and D67 EMC Eng Report shows the equipment failed RS103 testing and several of the failures occurred at levels below the DRS02 limit so there is no evidence showing compliance.	0.11%	
2.4.6.1.05	0510	The system shall meet the requirements after exposure to radiated H-Fields. ~Meets Def Stan 59-411 Part 3 Test DRS01.B Graphs at Figures 103 and 104.	C	C/NC	OTS	NC	C	C	0.00%	0.11%	0.11%	D67 EMC Test Report shows the equipments is compliant with DRS01.A limits and although the DRS01.B limits are similar, the bands of testing are different, therefore evidence showing compliance with the DRS02.B is incomplete.	0.11%	
2.4.6.1.06	0573	The system shall meet the requirements after exposure to a magnetic field (DC). ~Meets Def Stan 59-411 Part 3 Test DRS03.B Standard Test Method and Land Service Limits.	C	C/NC	OTS	C	C	C	0.11%	0.11%	0.11%	The document D67 EMC Test Report shows the equipments is compliant with DRS03.B limits.	0.11%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.6.1.07	0450	The system shall meet the requirements after exposure to electrostatic discharge. ~ Meets Def Stan 59-411 Part 3 Test DCS10 for a Category A equipment, or equivalent in BS EN 61000-4-2.	C	C/NC	OTS	C	C	C	0.05%	0.05%	0.05%	The document D67 EMC Test Report shows the equipments is compliant with DRS10.B.	0.05%	
2.4.6.1.08	0282	The GNSS reception performance of the system shall be resilient to interference outside the transmission bands of GNSS Sources. ~HDOP due to out-of-band interference is less than a factor of —.	0.00	Factor	OTS	2.00	0.00	0.00	0.00%	0.08%	0.08%	The D68 document provides a good test to ensure out of band transmissions from individual PRC648T2 equipments do not interfere with GNSS reception. The document provides very little detail of how the HDOP value of 0 (zero) is achieved.	0.08%	T: 2 O: 0
2.4.6.1.09	0551	The system shall operate effectively in the presence of other instances of itself. ~Analysis of multi-user interactions shows effective performance for at least 35 beacons randomly spaced within a 1 kilometre diameter circle.	C	C/NC	OTS	C	C	C	0.11%	0.11%	0.11%	The analysis carried out in the document D69 GNSS Multiple User Analysis combined with the D68 document test give a good indication that compliance with this SRD requirement is likely.	0.11%	
2.4.6.2		**System Requirements/Characteristics and Constraints/Compatibility/Int**							0.05%	0.05%	0.05%		**0.05%**	
2.4.6.2.01	0219	If system components are removable, components that are fully compatible shall be interchangeable. ~System continues to perform satisfactorily.	C	C/NA/NC	OTS	C	C	C	0.05%	0.05%	0.05%	Baseline doc describes parts that are interchangeable	0.05%	
2.4.6.2.02	0216	If system components are removable, components that are not fully compatible shall not be interchangeable.	C	C/NA/NC	OTS	C	C		0.00%	0.00%		have identified the "similar but different" aspects of e.g. antenna connection	0.00%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.6.3		**System Requirements/Characteristics and Constraints/Compatibility/St**							0.24%	0.24%	0.24%		**0.24%**	
2.4.6.3.01	0283	The system shall handle all applicable current and anticipated GNSS message structures.	C	C/NC	OTS	C	C	C	0.24%	0.24%	0.24%	firmware updates should solve this	0.24%	
2.4.7		**System Requirements/Characteristics and Constraints/Reliability**							0.97%	1.01%	1.01%		**1.27%**	
2.4.7.01	0095	The system shall have a probability of fully activating on demand of at least 99.99%. ~Across whole environmental specification including immersion, as defined by Def Stan 00-35. ~Reliability is at least 99.99% with a confidence level of at least 95%.	C	C/NC	OTS	C	C	C	0.49%	0.49%	0.49%	13 page EPLB Activation on Demand report produced to answer this question.	0.49%	
2.4.7.02	0470	Once activated, the system shall have a reliability of at least 99.5% when operated continuously. ~Across whole environmental specification including immersion, as defined by Def Stan 00-35. ~Reliability is at least 99.5% in continuous operation for at least 24 hours from activation with a confidence level of at least 95%.	C	C/NC		C	C	C	0.49%	0.49%	0.49%	Documentation quotes the following documents; D42 - FMECA, D72 - Reliability Calc, D73 - BIT Analysis. COmpliance has been stated. Analysis provided, but some conditions do not meet full specification.	0.49%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.7.03	0604	The system RF status test shall have a reliability of at least 90% of correctly indicating a fault. ~The reliability of the system RF test is at least — %, with a confidence level of at least 95%.	91.60	%	OTS	90.00	91.60	91.60	0.00%	0.02%	0.02%	CHECK CONF LEVEL state that 91.6 prediction gives Confidence level in figure of 90% (pg 18 of R&M Case). Fault injection testing plan submitted.	0.09%	T: 90 O: 99
2.4.7.04	0605	The system RF status test shall have a False Alarm Rate (FAR) for fault indications that does not exceed 1%. ~The probability of the system RF status test producing a false indication of a fault is no higher than — % of the total number of faults reported by the system RF status test, with a confidence level of at least 95%.	0.950	%	OTS	1.000	0.950	0.950	0.00%	0.00%	0.00%	prediction of .95 "gives confidence of achieving 1.0" Documentation quotes the following documents; D42 - FMECA, D72 - Reliability Calc, D73 - BIT Analysis. Compliance has been stated. Analysis provided, but some conditions do not meet full specification.	0.05%	T: 1 O: 0.1
2.4.7.05	0601	The system full self-test shall have a reliability of at least 90% of correctly indicating a fault. ~The reliability of the system full self-test is at least — %, with a confidence level of at least 95%.	91.60	%	OTS	90.00	91.60	91.60	0.00%	0.02%	0.02%	CHECK conf Level : Evidence in R&M Case. Confidence level quoted is 90% and so not at the 95% confidence preferred	0.09%	T: 90 O: 99
2.4.7.06	0603	The system full self-test shall have a False Alarm Rate (FAR) for fault indications that does not exceed 1%. #The probability of the system full self-test producing a false indication of a fault is no higher than — % of the total number of faults reported by the system RF status test, with a confidence level of at least 95%.	0.950	%	OTS	1.000	0.950	0.950	0.00%	0.00%	0.00%	Evidence states that prediction of .95 gives confidence in achieving 1%	0.05%	T: 1 O: 0.1
2.4.8		**System Requirements/Characteristics and Constraints/Maintainabil**							0.09%	0.09%	0.09%		**0.09%**	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.8.01	0238	The scheduled maintenance of the system shall be synchronised with other AEA and SE maintenance. ~No scheduled maintenance actions for the system are required more frequently than the standard 30-week AEA and SE maintenance cycle. ~All scheduled maintenance for the system can be adapted efficiently to the standard 30-week AEA and SE maintenance cycle.	C	C/NC	OTS	C	C	C	0.05%	0.05%	0.05%		0.05%	
2.4.8.02	0435	The system shall be maintainable using in-service tools and test equipment.	C	C/NC	OTS	C	C	C	0.04%	0.04%	0.04%		0.04%	
2.4.9		**System Requirements/Characteristics and Constraints/Sustainabili**							0.37%	0.37%	0.40%		**0.47%**	
2.4.9.01	0484	The system shall be sustainable for the planned in-service period.	C	C/NC	OTS	C	C	C	0.18%	0.18%	0.18%		0.18%	
2.4.9.02	0135	The system shall be supportable in compliance with the EPLB Integrated Logistics Support Plan.	C	C/NC	OTS	C	C		0.00%	0.00%			0.00%	
2.4.9.03	0485	Batteries for the Live Operational Variant(s) shall have a service life of at least 1.2 years. ~Battery meets specification for at least — years of operational wear or storage, including planned levels of self-testing, without activation in a survival situation.	3.00	years	OTS	2.75	3.00	5.00	0.02%	0.03%	0.05%	Battery has 5 yr shelf life	0.12%	T: 1.2 O: 10

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.9.04	0486	Rechargeable batteries for the SAR Training Variant shall have a service life of at least 2 years. ~Battery meets specification for at least — years of training use or storage, including recharging as necessary.	4.00	years	OTS	4.00	4.00	4.00	0.05%	0.05%	0.05%	Battery plan the rechargeable battery is good for 500 cycles.	0.05%	T: 2 O: 4
2.4.9.05	0487	Rechargeable batteries for the SERE/SE Fit Training Variant(s) shall have a service life of at least 2 years. ~Battery meets specification for at least — years of training use or storage, including recharging as necessary.	4.00	years	OTS	4.00	4.00	4.00	0.11%	0.11%	0.11%	Compliant battery has good shelf life and 500 cycles before replacement required.	0.11%	T: 2 O: 4
2.4.10		**System Requirements/Characteristics and Constraints/Safety**							0.39%	0.71%	0.71%		**0.71%**	
2.4.10.1		**System Requirements/Characteristics and Constraints/Safety/General S**							0.11%	0.11%	0.11%		**0.11%**	
2.4.10.1.01	0325	The system shall be unable to be re-configured from one variant to another by the User.	C	C/NC	OTS	C	C	C	0.11%	0.11%	0.11%	factory configured.	0.11%	
2.4.10.1.02	0564	The system shall be safe when operated in accordance with its Operator and Maintenance Manuals.	C	C/NC	OTS	C	C		0.00%	0.00%		Reference out to Preliminary Hazard Analysis (PHA) Report which identifies where Operator and Maintenance Manuals are mitigation to specific hazards	0.00%	
2.4.10.1.03	0563	The system shall be safe when handled in accordance with its Operator and Maintenance Manuals.	C	C/NC	OTS	C	C		0.00%	0.00%		Reference out to Preliminary Hazard Analysis (PHA) Report which identifies where Operator and Maintenance Manuals are mitigation to specific hazards	0.00%	
2.4.10.1.04	0565	The system shall be safe when stored in accordance with the EPLB ILSP.	C	C/NC	OTS	C	C		0.00%	0.00%		Well covered in ISP PHS&T Plan and Hazard Log too. Links to to 0561 compliance.	0.00%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.10.1.05	0137	The system shall be safe when separated into its components.	C	C/NC	OTS	C	C		0.00%	0.00%		Reference out to Preliminary Hazard Analysis (PHA) Report which identifies safety risks associated with individual components of the beacon	0.00%	
2.4.10.1.06	0561	The assembled system shall be safe to transport by all modes.	C	C/NC	OTS	C	C		0.00%	0.00%		PHS&T Plan covers this; Hazard Log and TEAP also cover topic. 0561 requirement and 00-03 and JSP 800 compliance within these documents..	0.00%	
2.4.10.1.07	0562	The system components shall be safe to transport by all modes.	C	C/NC	OTS	C	C		0.00%	0.00%		PHS&T Plan covers this; Hazard Log and TEAP also cover topic. 0561 requirement and 00-03 and JSP 800 compliance within these documents..	0.00%	
2.4.10.1.08	0311	The system shall comply with the health and safety, safety management, functional safety and safety integrity aspects of the EPLB Safety and Environmental Case.	C	C/NC	OTS	NC	C		0.00%	0.00%		SEMP knowledge of H&S & MOD Safety Management approach. Functional safety not addressed. Part 1 SCR SRs are not referred to & the EPLB hazards in the context of suppliers scope of safety work not discussed. Safety Integrity (SILs) clearly not understood.	0.00%	
2.4.10.1.09	0632	The System shall comply with the Restriction of Use of Hazardous Substances (RoHS) Directive. ~The system complies with the RoHS Directive, with waivers where necessary.	C	C/NC	OTS	C	C		0.00%	0.00%		Table 1 of the Legislation Register lists a series of EU Directives/Regulation that are identified as taking precedence over UK RoHS requirements. No non-compliances have been identified	0.00%	
2.4.10.1.10	0156	The system shall comply with current and impending UK Health and Safety Legislation.	C	C/NC	OTS	C	C		0.00%	0.00%		Table 1 of the Legislation Register lists a series of EU Directives/Regulation that are identified as taking precedence over UK H&S regulations. No non-compliances have been identified	0.00%	
2.4.10.1.11	0157	The system shall comply with current and impending EU Health and Safety Legislation.	C	C/NC	OTS	C	C		0.00%	0.00%		Table 1 of the Legislation Register lists a series of EU Directives/Regulation. No non-compliances have been identified	0.00%	
2.4.10.2		**System Requirements/Characteristics and Constraints/Safety/Battery S**							0.00%	0.00%	0.00%		**0.00%**	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.10.2.01	0136	The assembled system shall be safe to transport irrespective of the charge state of the battery.	C	C/NC	OTS	NC	C		0.00%	0.00%		D54-Electrochem BCX 85 DS & MSDS states “forbidden as cargo aboard passenger ac” question therefore is to clarify how this effects transportation and carriage in passenger carrying ac for example A400M, C-130J, Voyager and other such MOD ac.	0.00%	
2.4.10.2.02	0138	The battery, irrespective of its charge state, shall be safe to transport when separated from the system.	C	C/NC	OTS	NC	C		0.00%	0.00%		D54-Electrochem BCX 85 DS & MSDS states “forbidden as cargo aboard passenger ac” question therefore is to clarify how this effects transportation and carriage in passenger carrying ac for example A400M, C-130J, Voyager and other such MOD ac.	0.00%	
2.4.10.3		**System Requirements/Characteristics and Constraints/Safety/Airworthi**							0.00%	0.32%	0.32%		**0.32%**	
2.4.10.3.01	0111	The system shall not affect airworthiness when activated.	C	C/NC	OTS	NC	C		0.00%	0.00%		The Safety Management Plan provided by the company refers to DR(RADHAZ/EMC/EMI) but this in itself does not provide the evidence to substantiate their claim. Without test data or a plan to provide that data it is impossible to state that the equipment is airworthy from an RAD HAZ and EMC perspective.S&EMP, App B makes no reference to Pt 1 SCR requirement for non-interference. PHA report does not identify interference with aircraft as a hazard. No reference to EMC testing in Evidence Index Document.	0.00%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.10.3.02	0112	The system shall not affect airworthiness when armed.	C	C/NC	OTS	NC	C		0.00%	0.00%		The Safety Management Plan provide by the company refers to DR(RADHAZ/EMC/EMI) but this in itself does not provide the evidence to substantiate their claim. Without test data or a plan to provided that data it is impossible to state that the equipment is airworthy from an RAD HAZ and EMC perspective.S&EMP, App B makes no reference to Pt 1 SCR requirement for non-interference. PHA report does not identify interference with aircraft as a hazard. No reference to EMC testing in Evidence Index Document.	0.00%	
2.4.10.3.03	0113	The system shall not affect airworthiness when transported.	C	C/NC	OTS	NC	C		0.00%	0.00%		The Safety Management Plan provide by the company refers to DR(RADHAZ/EMC/EMI) but this in itself does not provide the evidence to substantiate their claim. Without test data or a plan to provide that data it is impossible to state that the equipment is airworthy from an RAD HAZ and EMC perspective.	0.00%	
2.4.10.3.04	0633	Any software in the Live Operational Variant(s) shall be assured to Safety Integrity Level 1 (SIL 1).	C	C/NC	Dev	NC	C	C	0.00%	0.32%	0.32%	References to SDP & Compliance Matrix with Def Stan 00-56, Issue 2 which is over 15 years old and is not current recognised good practice. The SDP does make reference to current software standards but goes no further. See detailed SDP assessment review.	0.32%	
2.4.10.4		**System Requirements/Characteristics and Constraints/Safety/Preventic**							0.28%	0.28%	0.28%		**0.28%**	
2.4.10.4.01	0230	The SAR Training Variant shall be incapable of generating transmissions detectable by the C-S Satellite System.	C	C/NC	OTS	C	C	C	0.09%	0.09%	0.09%	no 406 circuit shown on func diag, cited as disabled.	0.09%	
2.4.10.4.02	0231	The SERE/SE Fit Training Variant(s) shall be incapable of generating RF transmissions.	C	C/NC	OTS	C	C	C	0.09%	0.09%	0.09%	development activity to remove function	0.09%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.10.4.03	0440	The system self-test function shall not result in RF transmissions that can be perceived as false alarms by the C-S Satellite System or SAR Assets. ~Any RF transmissions produced by the system self-test functions will be undetectable with a confidence level of 95%. .	C	C/NC	OTS	C	C	C	0.09%	0.09%	0.09%	uses test protocol	0.09%	
2.4.11		**System Requirements/Characteristics and Constraints/Security**							0.00%	0.00%	0.00%		**0.00%**	
2.4.11.01	0358	The system shall be UNCLASSIFIED.	C	C/NC	OTS	C	C		0.00%	0.00%		The system may be unclassified	0.00%	
2.4.12		**System Requirements/Characteristics and Constraints/Physical Co**							0.36%	0.36%	0.51%		**0.51%**	
2.4.12.1		**System Requirements/Characteristics and Constraints/Physical Constr**							0.02%	0.02%	0.02%		**0.02%**	
2.4.12.1.01	0123	The SERE/SE Fit Training Variant(s) shall have the same physical characteristics as the corresponding Live Operational Variant, except as specified or constrained by other related requirements. ~Close resemblance sufficient for training realism. ~Battery enclosure shall have the same type of fitment mechanism and close resemblance sufficient for training realism.	C	C/NC	OTS	C	C	C	0.02%	0.02%	0.02%	The evidence suggest that this will be the case, the trg variant will be clearly identifiable with no transferrable components.	0.02%	
2.4.12.2		**System Requirements/Characteristics and Constraints/Physical Constr**							0.05%	0.05%	0.19%		**0.19%**	
2.4.12.2.1		**System Requirements/Characteristics and Constraints/Physical Constrai**							0.00%	0.00%	0.00%		**0.00%**	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.12.2.1.01	0443	*The size ranges are based on in-service and planned Aircrew Clothing, Life Rafts and constraints associated with harnesses, ejection seats and aircraft interfaces.*												
2.4.12.2.1.02	0444	*Ideally the system will have one size of beacon and battery, however the requirements are set at different priorities to allow a range of trade-offs across the whole SRD.*												
2.4.12.2.2		**System Requirements/Characteristics and Constraints/Physical Constrai**							0.01%	0.01%	0.06%		**0.06%**	
2.4.12.2.2.01	0442	The system shall fit into Aircrew Clothing for wear by Crew Members who use ejection seats.	2	Status	OTS	1	**1**	2	0.01%	0.01%	0.02%	OVERRULED FACE =Threshold. whilst potentially a non-issue, this is currently non compliant with the requirement as worded and no plan exists to change that, inspite of a CQ.	0.02%	LH01
2.4.12.2.2.02	0125	The system shall fit into Aircrew Clothing for wear by Crew Members who use ejection seats, without modifications to Aircrew Clothing. ~Beacon component with battery attached or included is no larger than 160 x 80 x 40 mm.	C	C/NC	OTS	NC	**NC**	C	0.00%	0.00%	0.04%	OVERRULED. whilst potentially a non-issue, this is currently non compliant with the requirement as worded and no plan exists to change that, inspite of a CQ.	0.04%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.12.2.2.03	0126	When worn by Crew Members who use ejection seats, when the system is not activated, the antenna assembl(ies) shall be within the space envelope of the Aircrew Clothing and meet all constraints due to ejection seats, as listed at Part 4. ~No increase in in-service envelope.	C	C/NC	OTS	C	C		0.00%	0.00%		The antennae successfully fit into existing stole pouches with no sharp protrusions likely to damage the inflatable stole.	0.00%	
2.4.12.2.3		**System Requirements/Characteristics and Constraints/Physical Constrai**							0.01%	0.01%	0.06%		**0.06%**	
2.4.12.2.3.01	0445	The system shall fit into Aircrew Clothing for wear by Crew Members who do not use ejection seats.	2	Status	OTS	1	**1**	2	0.01%	0.01%	0.02%	OVERRULED to FACE = Threshold. whilst potentially a non-issue, this is currently non compliant with the requirement as worded and no plan exists to change that, inspite of a CQ.	0.02%	LH01
2.4.12.2.3.02	0221	The system shall fit into Aircrew Clothing for wear by Crew Members who do not use ejection seats, without modifications to Aircrew Clothing. ~Beacon component with battery attached or included is no larger than 160 x 80 x 40 mm.	C	C/NC	OTS	NC	**NC**	C	0.00%	0.00%	0.04%	OVERRULED to Face NC. whilst potentially a non-issue, this is currently non compliant with the requirement as worded and no plan exists to change that, inspite of a CQ.	0.04%	
2.4.12.2.3.03	0127	When worn by Crew Members who do not use ejection seats, when the system is not activated, the antenna assembl(ies) shall be within the space envelope of the Aircrew Clothing, as listed at Part 4. ~No increase in in-service envelope.	C	C/NC	OTS	C	C		0.00%	0.00%		There will be no increase in the required space envelope	0.00%	
2.4.12.2.4		**System Requirements/Characteristics and Constraints/Physical Constrai**							0.03%	0.03%	0.08%		**0.08%**	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.12.2.4.01	0446	The system shall fit into stowed Aircrew Clothing to be donned by Crew Members.	2	Status	OTS	1	1	2	0.01%	0.01%	0.02%	OVERRULED to T=1. need to overrule the face value as it is strictly non compliant with objective	0.02%	LH01
2.4.12.2.4.02	0222	The system shall fit into stowed Aircrew Clothing to be donned by Crew Members, without modifications to Aircrew Clothing. ~Beacon component with battery attached or included is no larger than 160 x 80 x 40 mm.	C	C/NC	OTS	NC	NC	C	0.00%	0.00%	0.04%	OVERRULE. whilst potentially a non-issue, this is currently non compliant with the requirement as worded and no plan exists to change that, inspite of a CQ (FER_015)	0.04%	
2.4.12.2.4.03	0128	When stowed with Aircrew Clothing to be donned by Crew Members, the system shall be within the space envelope of the stowed Aircrew Clothing, as listed at Part 4. ~No increase in in-service envelope.	C	C/NC	OTS	C	C	C	0.02%	0.02%	0.02%	the unit will fit into the current space envelope and does not create any protrusions likely to damage the AEA.	0.02%	
2.4.12.3		**System Requirements/Characteristics and Constraints/Physical Constr**							0.23%	0.23%	0.23%		**0.23%**	
2.4.12.3.01	0116	When worn by Crew Members who use ejection seats, the system mass shall be no more than — kg.	1.150	kg	OTS	1.150	1.150	1.150	0.08%	0.08%	0.08%	System mass checked and is consistent throughout documentation and within prescribed SRD limits. Same variant proposed for all LOVs hence same system mass.	0.08%	T: 1.57 O: 1.15
2.4.12.3.02	0124	When worn by Crew Members who do not use ejection seats, the system mass shall be no more than — kg.	1.150	kg	OTS	1.150	1.150	1.150	0.08%	0.08%	0.08%	System mass checked and is consistent throughout documentation and within prescribed SRD limits. Same variant proposed for all LOVs hence same system mass.	0.08%	T: 1.57 O: 1.15
2.4.12.3.03	0129	When stowed with Aircrew Clothing to be donned by Crew Members, the system mass shall be no more than — kg.	1.150	kg	OTS	1.150	1.150	1.150	0.08%	0.08%	0.08%	System mass checked and is consistent throughout documentation and within prescribed SRD limits. Same variant proposed for all LOVs hence same system mass.	0.08%	T: 1.57 O: 1.15

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.12.4		**System Requirements/Characteristics and Constraints/Physical Constra**							0.05%	0.05%	0.05%		**0.05%**	
2.4.12.4.01	0477	The exterior of beacon components shall be predominately a high visibility yellow or orange colour.	C	C/NC	OTS	C	C	C	0.01%	0.01%	0.01%	Compliant - drawing supplied and checked.	0.01%	
2.4.12.4.02	0478	The exterior of battery enclosures shall be predominately a high visibility yellow or orange colour.	C	C/NC	OTS	C	C	C	0.01%	0.01%	0.01%	Compliant - drawing supplied and checked	0.01%	
2.4.12.4.03	0479	Parts of the system that are visible when installed, regardless of antenna deployment, shall be a low visibility colour.	C	C/NC	OTS	C	C	C	0.01%	0.01%	0.01%	Compliant - drawing supplied and checked	0.01%	
2.4.12.4.04	0480	Antenna components that are only visible after antenna deployment shall be fitted with retroreflective material.	C	C/NC	Dev	C	C	C	0.01%	0.01%	0.01%	Compliant - evidence pg 44 of Development Baseline document. Again, good convenient links to the evidence provided - very professional	0.01%	
2.4.12.4.05	0476	The high visibility parts of Live Operational Variant(s) shall be labelled using black lettering.	C	C/NC	Dev	C	C	C	0.01%	0.01%	0.01%	Compliant - drawings supplied.	0.01%	
2.4.12.4.06	0481	The low visibility parts of Live Operational Variant(s) shall be labelled using lettering of a contrasting colour.	C	C/NC	Dev	C	C	C	0.01%	0.01%	0.01%	Compliant - drawings and photgraphs supplied	0.01%	
2.4.12.5		**System Requirements/Characteristics and Constraints/Physical Constra**							0.02%	0.02%	0.02%		**0.02%**	
2.4.12.5.01	0577	The beacon component shall not rely on its power, control or signal connection(s) for mechanical support.	C	C/NC	OTS	C	C	C	0.01%	0.01%	0.01%	beacon retained in pocket, but not by cable	0.01%	
2.4.12.5.02	0579	The battery shall not rely on its power connection for mechanical support.	C	C/NC	OTS	C	C	C	0.01%	0.01%	0.01%	battery contained within beacon housing	0.01%	
2.4.13		**System Requirements/Characteristics and Constraints/Markings ar**							0.12%	0.12%	0.12%		**0.12%**	
2.4.13.1		**System Requirements/Characteristics and Constraints/Markings and Id**							0.02%	0.02%	0.02%		**0.02%**	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.13.1.01	0499	All system markings and identifications shall be in English. ~Content and meaning are clear and precise. ~Content and meaning are concise, described using short single words or short direct phrases, with British English spelling.	C	C/NC	OTS	C	C	C	0.02%	0.02%	0.02%		0.02%	
2.4.13.2		**System Requirements/Characteristics and Constraints/Markings and Id**							0.03%	0.03%	0.03%		**0.03%**	
2.4.13.2.01	0497	System controls shall be clearly marked with their overall function. ~Overall function is clear, precise, concise and direct.	C	C/NC	OTS	C	C	C	0.01%	0.01%	0.01%		0.01%	
2.4.13.2.02	0502	System control positions shall be clearly marked with the action or state that results from selecting that position. ~Markings shall be clear, precise, concise and direct.	C	C/NC	OTS	C	C	C	0.01%	0.01%	0.01%	Drawing show required markings	0.01%	
2.4.13.2.03	0503	Where appropriate, system controls shall be clearly marked with User instructions. ~Markings shall be clear, precise, concise and direct.	C	C/NC	OTS	C	C	C	0.01%	0.01%	0.01%		0.01%	
2.4.13.2.04	0506	System controls with the same function shall be marked in the same way on different variants. ~Complete consistency of wording, layout and style.	C	C/NC	OTS	C	C	C	0.01%	0.01%	0.01%	Compliant	0.01%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.13.3		**System Requirements/Characteristics and Constraints/Markings and Id**							0.00%	0.00%	0.00%		**0.00%**	
2.4.13.3.01	0629	The exterior of each beacon component for the Live Operational Variant(s) shall be clearly marked "EMERGENCY USE ONLY" using black lettering	C	C/NC	Dev	C	C		0.00%	0.00%			0.00%	
2.4.13.3.02	0150	The exterior of each beacon component for the SAR Training Variant shall be clearly marked "SAR TRAINING ONLY - NOT FOR OPERATIONAL USE" using blue lettering.	C	C/NC	Dev	C	C		0.00%	0.00%			0.00%	
2.4.13.3.03	0475	The exterior of each battery enclosure for the SAR Training Variant shall be clearly marked "SAR TRAINING ONLY - NOT FOR OPERATIONAL USE" using blue lettering.	C	C/NC	Dev	C	C		0.00%	0.00%		Compliancy shown in HLD	0.00%	
2.4.13.3.04	0474	Unless identical to the equivalent antenna component of the Live Operational Variant(s), the exterior of each antenna component for the SAR Training Variant shall be clearly marked "SAR TRAINING ONLY - NOT FOR OPERATIONAL USE" using blue lettering.	C	C/NC	Dev	C	C		0.00%	0.00%			0.00%	
2.4.13.3.05	0235	The exterior of each beacon component for the SERE/SE Fit Training Variant(s) shall be clearly marked "Ground Training Use Only" using red lettering.	C	C/NC	Dev	C	C		0.00%	0.00%			0.00%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.13.3.06	0473	The exterior of each battery enclosure for the SERE/SE Fit Training Variant(s) shall be clearly marked "Ground Training Use Only" using red lettering.	C	C/NC	Dev	C	C		0.00%	0.00%			0.00%	
2.4.13.3.07	0586	Each rechargeable battery pack for the SERE/SE Fit Training Variant(s) shall be clearly marked "Ground Training Use Only" using red lettering.	C	C/NC	Dev	C	C		0.00%	0.00%			0.00%	
2.4.13.3.08	0472	Unless identical to the equivalent antenna component of the Live Operational Variant(s), the exterior of each antenna component for the SERE/SE Fit Training Variant(s) shall be clearly marked "Ground Training Use Only" using red lettering.	C	C/NC	Dev	C	C		0.00%	0.00%			0.00%	
2.4.13.4		**System Requirements/Characteristics and Constraints/Markings and Id**							0.03%	0.03%	0.03%		**0.03%**	
2.4.13.4.01	0248	The exterior of each system component shall be clearly marked with its NATO Stock Number.	C	C/NC	Dev	C	C		0.00%	0.00%			0.00%	
2.4.13.4.02	0249	The exterior of each beacon component shall be clearly marked with its beacon identification.	C	C/NC	Dev	C	C		0.00%	0.00%			0.00%	
2.4.13.4.03	0456	The exterior of each beacon component shall be clearly marked with its beacon serial number.	C	C/NC	Dev	C	C	C	0.01%	0.01%	0.01%		0.01%	
2.4.13.4.04	0250	The exterior of each beacon component shall be clearly marked with its manufacturing serial number.	C	C/NC	Dev	C	C	C	0.02%	0.02%	0.02%		0.02%	
2.4.13.5		**System Requirements/Characteristics and Constraints/Markings and Id**							0.02%	0.02%	0.02%		**0.02%**	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
2.4.13.5.01	0482	The exterior of all lifed items shall be clearly marked with their expiry date.	C	C/NC	Dev	C	C	C	0.02%	0.02%	0.02%	Compliancy swell supported by evidence.	0.02%	
2.4.13.6		**System Requirements/Characteristics and Constraints/Markings and Id**							0.03%	0.03%	0.03%		**0.03%**	
2.4.13.6.01	0251	All system markings shall be legible for at least the service life of the marked component.	C	C/NC	Dev	C	C	C	0.02%	0.02%	0.02%		0.02%	
2.4.13.6.02	0252	All system markings shall be legible without disassembling the system into its components.	C	C/NC	Dev	C	C	C	0.01%	0.01%	0.01%		0.01%	
2.4.14		**System Requirements/Characteristics and Constraints/Upgradeabi**							0.09%	0.09%	0.09%		**0.09%**	
2.4.14.01	**0067**	The system shall have an upgrade path to receive notifications from the C-S Satellite System that an alert from the system has been successfully received.	C	C/NC	OTS	C	C	C	0.05%	0.05%	0.05%	GNSS chip provides this.	0.05%	
2.4.14.02	**0293**	The system shall have an upgrade path to indicate to the User that an alert reception notification has been received from the C-S Satellite System.	C	C/NC	OTS	C	C	C	0.05%	0.05%	0.05%	GNSS supports protocol.achieved via sw upgrade	0.05%	
2.4.15		**System Requirements/Characteristics and Constraints/Disposabilit**							0.01%	0.01%	0.01%		**0.01%**	
2.4.15.01	0360	The system shall be disposable following its Out of Service Date ~On disposal, shall be rendered incapable of transmitting on any frequency.	C	C/NC	OTS	C	C		0.00%	0.00%		Plan shows how beacon is rendered incapable of transmission	0.00%	
2.4.15.02	0212	Unserviceable system components shall be disposable.	C	C/NC	OTS	C	C		0.00%	0.00%		Disposal planis compliant and states all items return to manufacturer for disposal.	0.00%	
2.4.15.03	0607	On disposal the RF transmission functions of the system can be put beyond use with certainty, within — minutes, including system disassembly.	10.0	mins	OTS	10.0	10.0	10.0	0.01%	0.01%	0.01%		0.01%	T: 30 O: 10

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
3		**DIDs**							41.07%	41.07%	41.07%		**60.00%**	
3.1		**DIDs/Systems Engineering**							10.78%	10.78%	10.78%		**15.00%**	
3.1.1		**DIDs/Systems Engineering/General**							5.08%	5.08%	5.08%		**7.50%**	
3.1.1.01	**1009**	The Tenderer Shall submit a Full System Engineering Plan iaw DID-0213.	See Evid	DID		CL3-	CL3-	CL3-	1.05%	1.05%	1.05%	most areas addressed with some minor shortfalls but identification and traceability of critical parameters is not addressed (Key Shortfall)	1.75%	S01
3.1.1.02	**1010**	Authority's assessment of the Credibility of the System Engineering Plan at ID1009.	See Evid	Judgment		CL3	CL3	CL3	2.45%	2.45%	2.45%	critically the approach to the control and analysis of the legacy baseline is not covered. Some confusion over roles and required qualifications.	3.50%	S02
3.1.1.03	**1007**	The Tenderer Shall submit a Full High Level Design iaw DID-0211.	See Evid	DID		CL3	CL3	CL3	0.53%	0.53%	0.53%		0.75%	S01
3.1.1.04	**1008**	Authority's assessment of the Credibility of the High Level Design at ID1007.	See Evid	Judgment		CL3	CL3	CL3	1.05%	1.05%	1.05%		1.50%	S02
3.1.2		**DIDs/Systems Engineering/Design & Development**							2.25%	2.25%	2.25%		**3.00%**	
3.1.2.01	**1001**	The Tenderer Shall submit a Draft Design Review Plan iaw DID-0208.	See Evid	DID		CL3+	CL3+	CL3+	0.20%	0.20%	0.20%	Concise and easily followed submission containing all of the required content to the required standard with some minor shortfalls (WBS linkage, implied info on design status)	0.25%	S03
3.1.2.02	**1002**	Authority's assessment of the Credibility of the Design Review Plan at ID1001.	See Evid	Judgment		CL3+	CL3+	CL3+	0.40%	0.40%	0.40%	Concise and easily followed submission containing all of the required content to the required standard with some minor shortfalls (WBS linkage, implied info on design status)	0.50%	S04
3.1.2.03	**1005**	The Tenderer Shall submit a Full Human Factors Integration Plan iaw DID-0210.	See Evid	DID		CL3	CL3	CL3	0.18%	0.18%	0.18%	Whilst the design process has not stated an intention to comply with JSP912 and has omitted the an explicit section on role of the HFIWG as part of the strategy, the detail is elsewhere and the document is more than adequate.	0.25%	S01

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
3.1.2.04	1006	Authority's assessment of the Credibility of the Human Factors Integration Plan at ID1005.	See Evid	Judgment		CL3	CL3	CL3	0.35%	0.35%	0.35%	High confidence in understanding the issue and how it interfaces with the Systems Engineering process.	0.50%	S02
3.1.2.05	1029	The Tenderer Shall submit a Full Software Development Plan iaw DID-0206.	See Evid	DID		CL3+	CL3+	CL3+	0.20%	0.20%	0.20%	Initial feeling is DID is met. concerns over implementation	0.25%	S01
3.1.2.06	1030	Authority's assessment of the Credibility of the Software Development Plan at ID1029.	See Evid	Judgment		CL3+	CL3+	CL3+	0.40%	0.40%	0.40%		0.50%	S02
3.1.2.07	1031	The Tenderer Shall submit a Full Hardware Development Plan iaw DID-0207.	See Evid	DID		CL3	CL3	CL3	0.18%	0.18%	0.18%		0.25%	S01
3.1.2.08	1032	Authority's assessment of the Credibility of the Hardware Development Plan at ID1031.	See Evid	Judgment		CL3	CL3	CL3	0.35%	0.35%	0.35%		0.50%	S02
3.1.3		**DIDs/Systems Engineering/Qualification, Test & Evaluation**							3.46%	3.46%	3.46%		**4.50%**	
3.1.3.01	1013	The Tenderer Shall submit a Draft Test, Evaluation and Acceptance Plan iaw DID-0500.	See Evid	DID		CL3+	CL3+	CL3+	0.48%	0.48%	0.48%	Satisifes all the criteria of the DID to a generally high standard. The weaknesses centre around the lack of a clearly explained end objective of the TEAP and the fact that the document is not as clearly aligned with delivery of the EPLB capability as it would need to be to warrant a higher score. The Authority stakeholders are also not defined in as much depth as they could be.	0.60%	S03

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
3.1.3.02	1014	Authority's assessment of the Credibility of the Test, Evaluation and Acceptance Plan at ID1013.	See Evid	Judgment		CL3	CL3	CL3	0.84%	0.84%	0.84%	A credible plan which would require relatively little work to translate into the FULL TEAP. The areas for improvement focus broadly on the understanding of MOD stakeholders and organisations and hence a lack of credibility of the planning assumptions based around these. The T&E for the LOV is well defined however the activities for the training variants would benefit from a little more detail particularly in the area of reliability.	1.20%	S04
3.1.3.03	1015	The Tenderer Shall submit a Draft Test, Evaluation and Acceptance Schedule iaw DID-0501.	See Evid	DID		CL2+	CL2+	CL2+	0.11%	0.11%	0.11%	The document is an acceptable skeleton which would be suitable for further development but requires further detail in some significant areas including DLoD dependencies and User Acceptance trials. In places it is written not as a schedule but as a more descriptive document mirroring the TEAP. Float is not adequately addressed in the plan	0.38%	S03
3.1.3.04	1016	Authority's assessment of the Credibility of the Test, Evaluation and Acceptance Schedule at ID1015.	See Evid	Judgment		CL3-	CL3-	CL3-	0.45%	0.45%	0.45%	The schedule is in general a credible one however its failure to address the DLoDs beyond equipment do limit its ability to score any higher. Some of the test durations suggested (particularly C-S) are somewhat optimistic and in places contradictory to evidence provided elsewhere in the document.	0.75%	S04
3.1.3.05	1019	The Tenderer Shall submit a Draft Factory Acceptance Test Schedule iaw DID-0514.	See Evid	DID		CL4	CL4	CL4	0.15%	0.15%	0.15%		0.15%	S03
3.1.3.06	1020	Authority's assessment of the Credibility of the Factory Acceptance Test Schedule at ID1019.	See Evid	Judgment		CL4	CL4	CL4	0.30%	0.30%	0.30%		0.30%	S04

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
3.1.3.07	1021	The Tenderer Shall submit a Draft Site Acceptance Test Schedule iaw DID-0516.	See Evid	DID		CL4	CL4	CL4	0.15%	0.15%	0.15%		0.15%	S03
3.1.3.08	1022	Authority's assessment of the Credibility of the Site Acceptance Test Schedule at ID1021.	See Evid	Judgment		CL4	CL4	CL4	0.30%	0.30%	0.30%		0.30%	S04
3.1.3.09	1003	The Tenderer Shall submit a Draft Qualification Test Plan iaw DID-0209.	See Evid	DID		CL4	CL4	CL4	0.23%	0.23%	0.23%		0.23%	S03
3.1.3.10	1004	Authority's assessment of the Credibility of the Qualification Test Plan at ID1003.	See Evid	Judgment		CL4	CL4	CL4	0.45%	0.45%	0.45%		0.45%	S04
3.2		**DIDs/Integrated Logistic Support**							7.95%	7.95%	7.95%		**9.00%**	
3.2.1		**DIDs/Integrated Logistic Support/ISP & SAP**							4.23%	4.23%	4.23%		**4.50%**	
3.2.1.01	1025	The Tenderer Shall submit a Draft Integrated Support Plan iaw DID-0700.	See Evid	DID		CL4	CL4	CL4	1.05%	1.05%	1.05%	Comprehensive ISP good detail	1.05%	S03
3.2.1.02	1026	Authority's assessment of the Credibility of the Integrated Support Plan at ID1025.	See Evid	Judgment		CL4	CL4	CL4	2.10%	2.10%	2.10%	ISP has high credability	2.10%	S04
3.2.1.03	1027	The Tenderer Shall submit a Draft ISP Annex A (Supportability Analysis Plan) iaw DID-0701.	See Evid	DID		CL3+	CL3+	CL3+	0.36%	0.36%	0.36%	Detailed plan, shows good knowledge of subject and shows Risk and mitigation	0.45%	S03
3.2.1.04	1028	Authority's assessment of the Credibility of the Draft ISP Annex A at ID1027.	See Evid	Judgment		CL3+	CL3+	CL3+	0.72%	0.72%	0.72%	A very credible plan which links well into supporting documents.	0.90%	S04
3.2.2		**DIDs/Integrated Logistic Support/Annex B - ARMP**							1.04%	1.04%	1.04%		**1.35%**	
3.2.2.01	1065	The Tenderer Shall submit a Draft ISP Annex B (ARM Plan) iaw DID-0701.	See Evid	DID		CL3+	CL3+	CL3+	0.18%	0.18%	0.18%	A good and detailed plan which shows how the company will approach AR&M.	0.23%	S03
3.2.2.02	1066	Authority's assessment of the Credibility of the Draft ISP Annex B at ID1065.	See Evid	Judgment		CL3+	CL3+	CL3+	0.36%	0.36%	0.36%		0.45%	S04
3.2.2.03	1067	The Tenderer Shall submit a Draft ISP Annex B1 (R&M Case) iaw DID-0701.	See Evid	DID		CL3+	CL3+	CL3+	0.18%	0.18%	0.18%		0.23%	S03

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
3.2.2.04	1068	Authority's assessment of the Credibility of the Draft ISP Annex B1 at ID1067.	See Evid	Judgment		CL3	CL3	CL3	0.32%	0.32%	0.32%		0.45%	S04
3.2.3		**DIDs/Integrated Logistic Support/Annex C - Maintenance Plan**							0.45%	0.45%	0.45%		**0.45%**	
3.2.3.01	1069	The Tenderer Shall submit a Draft ISP Annex C (Maintenance Plan) iaw DID-0701.	See Evid	DID		CL4	CL4	CL4	0.15%	0.15%	0.15%	Very detailed plan clearly showing planned maintenance activities.	0.15%	S03
3.2.3.02	1070	Authority's assessment of the Credibility of the Draft ISP Annex C at ID1069.	See Evid	Judgment		CL4	CL4	CL4	0.30%	0.30%	0.30%	Maintenance Plan is very credible given the level of detail.	0.30%	S04
3.2.4		**DIDs/Integrated Logistic Support/Annex D - STE Plan**							0.22%	0.22%	0.22%		**0.27%**	
3.2.4.01	1071	The Tenderer Shall submit a Draft ISP Annex D (STE Plan) iaw DID-0701.	See Evid	DID		CL3+	CL3+	CL3+	0.07%	0.07%	0.07%	Detailed Plan showiing how ST&E would be supported and maintained. Will require IT to run software.	0.09%	S03
3.2.4.02	1072	Authority's assessment of the Credibility of the Draft ISP Annex D at ID1071.	See Evid	Judgment		CL3+	CL3+	CL3+	0.14%	0.14%	0.14%	Attention to details gives plan a high credibility and confidence.	0.18%	S04
3.2.5		**DIDs/Integrated Logistic Support/Annex E - Facilities Plan**							0.07%	0.07%	0.07%		**0.09%**	
3.2.5.01	1073	The Tenderer Shall submit a Draft ISP Annex E (Facilities Plan) iaw DID-0701.	See Evid	DID		CL3+	CL3+	CL3+	0.02%	0.02%	0.02%	Detailed plan and lays out required facilities including manufaturers support facility.	0.03%	S03
3.2.5.02	1074	Authority's assessment of the Credibility of the Draft ISP Annex E at ID1073.	See Evid	Judgment		CL3+	CL3+	CL3+	0.05%	0.05%	0.05%	Plan gives confidence facility requirement is understood with no real risks.	0.06%	S04
3.2.6		**DIDs/Integrated Logistic Support/Annex F - Technical Documentati**							0.27%	0.27%	0.27%		**0.27%**	
3.2.6.01	1075	The Tenderer Shall submit a Draft ISP Annex F (Technical Documentation Plan) iaw DID-0701.	See Evid	DID		CL4	CL4	CL4	0.09%	0.09%	0.09%	The technical documentation plan is very detailed and clearly lays out the companies processes.	0.09%	S03
3.2.6.02	1076	Authority's assessment of the Credibility of the Draft ISP Annex F at ID1075.	See Evid	Judgment		CL4	CL4	CL4	0.18%	0.18%	0.18%	Plan has very high credibility of delivering required tech docs.	0.18%	S04
3.2.7		**DIDs/Integrated Logistic Support/Annex G - PHS&T Plan**							0.22%	0.22%	0.22%		**0.27%**	
3.2.7.01	1077	The Tenderer Shall submit a Draft ISP Annex G (PHS&T Plan) iaw DID-0701.	See Evid	DID		CL3+	CL3+	CL3+	0.07%	0.07%	0.07%	Detailed plan but lacks some details on returning kit.	0.09%	S03

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
3.2.7.02	1078	Authority's assessment of the Credibility of the Draft ISP Annex G at ID1077.	See Evid	Judgment		CL3+	CL3+	CL3+	0.14%	0.14%	0.14%		0.18%	S04
3.2.8		**DIDs/Integrated Logistic Support/Annex H - Training & Training Equ**							0.36%	0.36%	0.36%		**0.45%**	
3.2.8.01	1079	The Tenderer Shall submit a Draft ISP Annex H (Training & Training Equipment Plan) iaw DID-0701.	See Evid	DID		CL3+	CL3+	CL3+	0.12%	0.12%	0.12%		0.15%	S03
3.2.8.02	1080	Authority's assessment of the Credibility of the Draft ISP Annex H at ID1079.	See Evid	Judgment		CL3+	CL3+	CL3+	0.24%	0.24%	0.24%	The detail in the plans gives it a high level of credibility.	0.30%	S04
3.2.9		**DIDs/Integrated Logistic Support/Annex I - Human Factors**							0.00%	0.00%	0.00%		**0.00%**	
3.2.9.01	1081	*ISP Annex I not used (see ID1005).*												
3.2.10		**DIDs/Integrated Logistic Support/Annex J - CMP [Relocated to Qua**							0.00%	0.00%	0.00%		**0.00%**	
3.2.10.01	1127	*Annex J relocated to Quality at ID1083.*												
3.2.11		**DIDs/Integrated Logistic Support/Annex K - Obsolescence Manage**							0.22%	0.22%	0.22%		**0.27%**	
3.2.11.01	1085	The Tenderer Shall submit a Draft ISP Annex K (Obsolescence Management Plan) iaw DID-0701.	See Evid	DID		CL3+	CL3+	CL3+	0.07%	0.07%	0.07%	Good plan showing how the company will cover obsolescence activities.	0.09%	S03
3.2.11.02	1086	Authority's assessment of the Credibility of the Draft ISP Annex K at ID1085.	See Evid	Judgment		CL3+	CL3+	CL3+	0.14%	0.14%	0.14%	Obsolescence plan is highly credible due to the level of detail provided.	0.18%	S04
3.2.12		**DIDs/Integrated Logistic Support/Annex L - Battery Management Pl**							0.28%	0.28%	0.28%		**0.36%**	
3.2.12.01	1087	The Tenderer Shall submit a Draft ISP Annex L (Battery Management Plan) iaw DID-0701.	See Evid	DID		CL3	CL3	CL3	0.08%	0.08%	0.08%		0.12%	S03
3.2.12.02	1088	Authority's assessment of the Credibility of the Draft ISP Annex L at ID1087.	See Evid	Judgment		CL3+	CL3+	CL3+	0.19%	0.19%	0.19%		0.24%	S04
3.2.13		**DIDs/Integrated Logistic Support/Annex M - Software Support Plan**							0.06%	0.06%	0.06%		**0.09%**	
3.2.13.01	1089	The Tenderer Shall submit a Draft ISP Annex M (Software Support Plan) iaw DID-0701.	See Evid	DID		CL3	CL3	CL3	0.02%	0.02%	0.02%		0.03%	S03

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
3.2.13.02	1090	Authority's assessment of the Credibility of the Draft ISP Annex M at ID1089.	See Evid	Judgment		CL3	CL3	CL3	0.04%	0.04%	0.04%	The SSP is is detailed and credible.	0.06%	S04
3.2.14		**DIDs/Integrated Logistic Support/Annex N - Fielding Plan**							0.06%	0.06%	0.06%		**0.09%**	
3.2.14.01	1091	The Tenderer Shall submit a Draft ISP Annex N (Fielding Plan) iaw DID-0701.	See Evid	DID		CL3	CL3	CL3	0.02%	0.02%	0.02%		0.03%	S03
3.2.14.02	1092	Authority's assessment of the Credibility of the Draft ISP Annex N at ID1091.	See Evid	Judgment		CL3-	CL3-	CL3-	0.04%	0.04%	0.04%	The lack of details gives concern that company have not understood requirement and will need an amount of work to ensure success.	0.06%	S04
3.2.15		**DIDs/Integrated Logistic Support/Annex O - In-Service Support**							0.27%	0.27%	0.27%		**0.27%**	
3.2.15.01	1093	The Tenderer Shall submit a Draft ISP Annex O (ISSP) iaw DID-0701.	See Evid	DID		CL4	CL4	CL4	0.09%	0.09%	0.09%		0.09%	S03
3.2.15.02	1094	Authority's assessment of the Credibility of the Draft ISP Annex O at ID1093.	See Evid	Judgment		CL4	CL4	CL4	0.18%	0.18%	0.18%		0.18%	S04
3.2.16		**DIDs/Integrated Logistic Support/Annex P - Disposal Plan**							0.22%	0.22%	0.22%		**0.27%**	
3.2.16.01	1095	The Tenderer Shall submit a Draft ISP Annex P (Disposal Plan) iaw DID-0701.	See Evid	DID		CL3+	CL3+	CL3+	0.07%	0.07%	0.07%	Very detailed plan which fully covers the DID.	0.09%	S03
3.2.16.02	1096	Authority's assessment of the Credibility of the Draft ISP Annex P at ID1095.	See Evid	Judgment		CL3+	CL3+	CL3+	0.14%	0.14%	0.14%		0.18%	S04
3.3		**DIDs/Safety & Environmental Management and Legislation**							4.95%	4.95%	4.95%		**9.00%**	
3.3.01	1063	The Tenderer Shall submit a Full Safety and Environmental Plan iaw DID-0110.	See Evid	DID		CL3-	CL3-	CL3-	1.44%	1.44%	1.44%	Most areas of the DID are covered to a reasonable standard, but there are areas that could have been better described such as: trials documents, SQEP, change management and MRP compliance.	2.40%	S03

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
3.3.02	1064	Authority's assessment of the Credibility of the Safety and Environmental Plan at ID1063.	See Evid	Judgment		CL3-	CL3-	CL3-	2.88%	2.88%	2.88%	High confidence that the bidder could deliver in this area, with minor concerns/low risk such as lack of identified environmental responsibilities, safety assessment of legacy equipment and functional safety assessment.	4.80%	S04
3.3.03	1033	The Tenderer Shall submit a Full Environmental Impact Assessment Report iaw DID-0114.	See Evid	DID		CL2	CL2	CL2	0.06%	0.06%	0.06%	The EIA report is essentially a statement of intent, with little detail relating to the specific proposal. Focus is on legislative compliance.	0.30%	S01
3.3.04	1034	Authority's assessment of the Credibility of the Environmental Impact Assessment Report at ID1033.	See Evid	Judgment		CL2	CL2	CL2	0.12%	0.12%	0.12%	The limited content of a 'full' document suggests that this could be an area of high risk.	0.60%	S02
3.3.05	1037	The Tenderer Shall submit a Full Legislation Register iaw DID-0119.	See Evid	DID		CL2+	CL2+	CL2+	0.09%	0.09%	0.09%	Most requirements of the DID have been addressed, but not always in sufficient detail. Document conflicts with the SEMP and wider environmental laws, including the batteries regulations have not been captured.	0.30%	S01
3.3.06	1038	Authority's assessment of the Credibility of the Legislation Register at ID1037.	See Evid	Judgment		CL3-	CL3-	CL3-	0.36%	0.36%	0.36%	There appears to be a process in place, but not described in detail. Lacks a full list of applicable legislation.	0.60%	S02
3.4		**DIDs/Quality**							5.67%	5.67%	5.67%		**9.00%**	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
3.4.01	1057	The Tenderer Shall submit a Full Quality Management Plan iaw DID-0106.	See Evid	DID		CL3-	CL3-	CL3-	1.26%	1.26%	1.26%	The document doesn't follow the DID exactly and there appears to be areas that are not covered in appropriate detail. The interface with MoD, continuous improvement, control of conformity are areas of concern that appear not to be documented. It was noted that interlinking with other documents was particularly good.	2.10%	S01
3.4.02	1058	Authority's assessment of the Credibility of the Quality Management Plan at ID1057.	See Evid	Judgment		CL3-	CL3-	CL3-	2.52%	2.52%	2.52%	Likely to achieve a successful outcome, but there were important areas that were not covered in sufficient detail and so the risk is considered slightly higher.	4.20%	S02
3.4.03	1083	The Tenderer Shall submit a Draft ISP Annex J (CMP) iaw DID-0701.	See Evid	DID		CL3	CL3	CL3	0.63%	0.63%	0.63%		0.90%	S03
3.4.04	1084	Authority's assessment of the Credibility of the Draft ISP Annex J at ID1083.	See Evid	Judgment		CL3	CL3	CL3	1.26%	1.26%	1.26%		1.80%	S04
3.5		**DIDs/Project Management**							11.72%	11.72%	11.72%		**18.00%**	
3.5.1		**DIDs/Project Management/General**							0.00%	0.00%	0.00%		**0.00%**	
3.5.1.01	1131	Authority's judgment of the acceptability of the Tenderer's Response with regard to Project Management planning under Section 3.5.	NA	C/NC		C	C		0.00%	0.00%		thoroughly prepared documentation and a high confidence in ability to deliver	0.00%	
3.5.2		**DIDs/Project Management/Planning**							7.21%	7.21%	7.21%		**10.21%**	
3.5.2.01	1041	The Tenderer Shall submit a Full Relationship Management Plan iaw DID-0001.	See Evid	DID		CL3	CL3	CL3	0.43%	0.43%	0.43%	Generally in accordance with the DID.	0.62%	S01

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
3.5.2.02	1042	Authority's assessment of the Credibility of the Relationship Management Plan at ID1041.	See Evid	Judgment		CL3-	CL3-	CL3-	0.74%	0.74%	0.74%	The tenderer has a supplied a RMP that adequately articulates the necessity of relationship management to a reasonable degree. It does however, lack detailed tailoring for the EPLB project. As a result, I have moderate confidence, albeit with some concern	1.24%	S02
3.5.2.03	1043	The Tenderer Shall submit a Full Project Management Plan iaw DID-0100.	See Evid	DID		CL3+	CL3+	CL3+	1.48%	1.48%	1.48%	The PMP provided by the tenderer gives a robust response to the DID; albeit some individual areas have not been adequately addressed and some minor shortcomings in quality. As a result I have significant confidence in the overall quality of the document and that the tenderer demonstrates a good understanding of the subject matter.	1.86%	S01
3.5.2.04	1044	Authority's assessment of the Credibility of the Project Management Plan at ID1043.	See Evid	Judgment		CL3	CL3	CL3	2.60%	2.60%	2.60%	A credible plan presented with only one or two areas which would need a few tweaks to make a CL4 score. Significant likelihood that the plan would work and the detail and approach instills confidence.	3.71%	S02
3.5.2.05	1039	The Tenderer Shall submit a Full Project Management Strategy iaw DID-0126.	See Evid	DID		CL3	CL3	CL3	0.43%	0.43%	0.43%	A little light on PM techniques, focussing on PM tools	0.62%	S01
3.5.2.06	1040	Authority's assessment of the Credibility of the Project Management Strategy at ID1039.	See Evid	Judgment		CL3	CL3	CL3	0.87%	0.87%	0.87%	Demonstrates an integrated approach, with sub-contractors from all LSJ under work agreements, to deliver an intergrated system.	1.24%	S02
3.5.2.07	1115	The Tenderer Shall submit a Sustainable Procurement Plan iaw DID-0802.	See Evid	DID		CL3	CL3	CL3	0.22%	0.22%	0.22%	Most areas of the DID addressed. A good understanding of SP and the importance of supply chain management.	0.31%	S01

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
3.5.2.08	1126	Authority's judgment of the Credibility of the Sustainable Procurement Plan at ID1115.	See Evid	Judgment		CL3	CL3	CL3	0.43%	0.43%	0.43%	ISO accreditation and subcontractor code of conduct give confidence and will aid implementation of SP objectives.	0.62%	S02
3.5.3		**DIDs/Project Management/Schedule & Breakdown Structures**							0.73%	0.73%	0.73%		**2.23%**	
3.5.3.01	1045	The Tenderer Shall submit a Full Project Schedule iaw DID-0101.	See Evid	DID		CL2+	CL2+	CL2+	0.09%	0.09%	0.09%	The schedule provided clearly shows that FTL have an understanding of the engineering/technical aspect of delivering the EPLB. It also meets the requirements of the DID in most aspects.	0.30%	S01
3.5.3.02	1046	Authority's assessment of the Credibility of the Project Schedule at ID1045.	See Evid	Judgment		CL3-	CL3-	CL3-	0.36%	0.36%	0.36%		0.59%	S02
3.5.3.03	1047	The Tenderer Shall submit a Full Product Breakdown Structure iaw DID-0102.	See Evid	DID		CL2-	CL2-	CL2-	0.02%	0.02%	0.02%	The tenderer's supplied PBS only refers to Products in a physical sense, not a project management sense. See additional notes in document.	0.22%	S01
3.5.3.04	1048	Authority's assessment of the Credibility of the Product Breakdown Structure at ID1047.	See Evid	Judgment		CL2-	CL2-	CL2-	0.04%	0.04%	0.04%		0.45%	S02
3.5.3.05	1049	The Tenderer Shall submit a Full Work Breakdown Structure iaw DID-0103.	See Evid	DID		CL3-	CL3-	CL3-	0.13%	0.13%	0.13%		0.22%	S01
3.5.3.06	1050	Authority's assessment of the Credibility of the Work Breakdown Structure at ID1049.	See Evid	Judgment		CL2	CL2	CL2	0.09%	0.09%	0.09%		0.45%	S02
3.5.4		**DIDs/Project Management/Risks and Opportunities Management**							1.99%	1.99%	1.99%		**2.78%**	
3.5.4.01	1059	The Tenderer Shall submit a Full Risks and Opportunity Management Plan iaw DID-0108.	See Evid	DID		CL3	CL3	CL3	0.39%	0.39%	0.39%	The supplied DID meets the requirements of the DID in most aspects though does not follow the required structure. The document comes across as a generic though mature document and provides significant confidence that the tenderer can articulate a Risk & Opportunities Management Process.	0.56%	S01

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
3.5.4.02	1060	Authority's assessment of the Credibility of the Risks and Opportunity Management Plan at ID1059.	See Evid	Judgment		CL3+	CL3+	CL3+	0.89%	0.89%	0.89%	Clear understanding of how the risk information will be used for the benefot of the project (top 5 risks, trend reporting)	1.11%	S02
3.5.4.03	1061	The Tenderer Shall submit a Full Joint Risk and Opportunity Register iaw DID-0109.	See Evid	DID		CL3	CL3	CL3	0.26%	0.26%	0.26%	Generally in line with the DID; though misses out 3PEs for PCT. Risks appear to be mostly well articulated. Good confidence. See additional notes	0.37%	S01
3.5.4.04	1062	Authority's assessment of the Credibility of the Joint Risk and Opportunity Register at ID1061.	See Evid	Judgment		CL3-	CL3-	CL3-	0.45%	0.45%	0.45%	See additional notes in file	0.74%	S02
3.5.5		**DIDs/Project Management/Assumptions, Dependencies & Exclusio**							1.11%	1.11%	1.11%		**1.86%**	
3.5.5.01	1035	The Tenderer Shall submit a Full Project Assumptions, Dependencies and Exclusions List iaw DID-0117.	See Evid	DID		CL3-	CL3-	CL3-	0.37%	0.37%	0.37%	A PADEL has been provided that is, generally, in accordance with the DID. However, the tenderer fails to highlight what element type each Assumption is.	0.62%	S01
3.5.5.02	1036	Authority's assessment of the Credibility of the Project Assumptions, Dependencies and Exclusions List at ID1035.	See Evid	Judgment		CL3-	CL3-	CL3-	0.74%	0.74%	0.74%		1.24%	S02
3.5.6		**DIDs/Project Management/Responsibilities**							0.68%	0.68%	0.68%		**0.93%**	
3.5.6.01	1053	The Tenderer Shall submit a Full Organisation Breakdown Structure iaw DID-0104.	See Evid	DID		CL3	CL3	CL3	0.11%	0.11%	0.11%		0.15%	S01
3.5.6.02	1054	Authority's assessment of the Credibility of the Organisation Breakdown Structure at ID1053.	See Evid	Judgment		CL3+	CL3+	CL3+	0.25%	0.25%	0.25%		0.31%	S02
3.5.6.03	1055	The Tenderer Shall submit a Full Responsibility Assignment Matrix iaw DID-0105.	See Evid	DID		CL3	CL3	CL3	0.11%	0.11%	0.11%	In accordance with DID.	0.15%	S01
3.5.6.04	1056	Authority's assessment of the Credibility of the Responsibility Assignment Matrix at ID1055.	See Evid	Judgment		CL3	CL3	CL3	0.22%	0.22%	0.22%	In accordance with DID	0.31%	S02
4		**Commercial**							1.00%	2.00%	2.00%		**2.00%**	
4.1		**Commercial/General**							0.00%	0.00%	0.00%		**0.00%**	
4.1.01	1102	The Tenderer Shall submit a completed DEFFORM 47.	C	C/NC	OTS	C	C		0.00%	0.00%		Completed DEFFORM 47 Provided	0.00%	

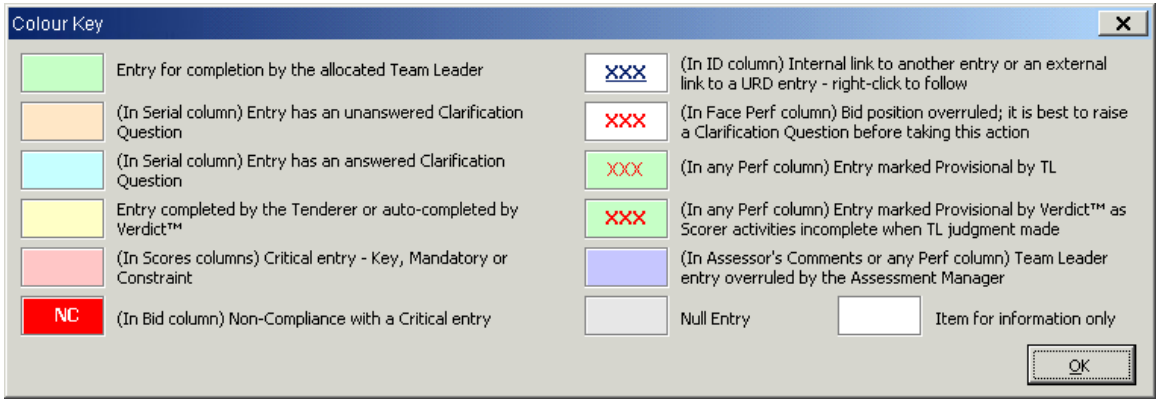
Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
4.1.02	1103	The Tenderer Shall submit a completed DEFFORM 47 Statement of Compliance.	C	C/NC	OTS	C	C		0.00%	0.00%		Tenderer replied complete.	0.00%	
4.1.03	1104	The Tenderer Shall submit a Full Tender Deliverables Check List by completing Annex L of the SNITs.	C	C/NC	OTS	C	C		0.00%	0.00%		Tenderer replied complete.	0.00%	
4.1.04	1128	Commercial Officer's judgment of the acceptability of the Tenderer's Response with regard to information supplied in response to ID1102-1104.	C	C/NC	OTS	C	C		0.00%	0.00%		APS Commercial confirm that a complete Tender has been received.	0.00%	
4.1.05	1114	If intending to form teaming arrangements, the Tenderer Shall submit a Teaming Arrangement Strategy iaw DID-0801.	NA	C/NA/NC		C	NA		0.00%	0.00%		Teaming strategy from FTL not a discrete document but meets the requirements of the DID.	0.00%	
4.1.06	1125	Authority's assessment of the Credibility of the information supplied in response to ID0114.	NA	C/NC		C	C		0.00%	0.00%		Satisfactory evidence of the supply chain provided.	0.00%	
4.2		**Commercial/SoR & Compliance**							0.00%	0.00%	0.00%		**0.00%**	
4.2.01	1107	The Tenderer Shall submit a Full completed Schedule of Requirements [DEFFORM 110] iaw Part 2 of the Draft Contract.	C	C/NC	OTS	C	C		0.00%	0.00%		Tenderer replied complete	0.00%	
4.2.02	1105	The Tenderer Shall submit a Full Terms and Conditions Statement of Compliance by completing Annex G of the SNITs.	C	C/NC	OTS	C	C		0.00%	0.00%		Compliance statement received. DEFCON19 and one DefStan raised; need to check QA with APS-QM.	0.00%	
4.2.03	1123	Commercial Officer's judgment of the acceptability of the Tenderer's Response with regard to information supplied in response to ID1107 and ID1105.	NA	C/NC		C	C		0.00%	0.00%		It is not considered that any of the issues would render the Tenderer non-compliant. Awaiting CQ responses.	0.00%	
4.3		**Commercial/Commercial Proposal**							1.00%	2.00%	2.00%		**2.00%**	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
4.3.01	1132	The Tenderer Shall complete columns 4 and 5 of the Anchor Milestones at Annex E of the Draft Contract.	C	C/NC	OTS	C	C		0.00%	0.00%		CQ raised re plan provided. In the response, it is clear that the Tenderer has misundersood the purpose of the Anchor Plan.	0.00%	
4.3.02	1108	The Tenderer Shall submit a Full Milestone Payment Plan iaw Annex F of the Draft Contract.	C	C/NC	OTS	C	C		0.00%	0.00%		Tenderer has submitted a plan to cover NRE (Item1) and Long Lead buys (£1.2M); unsure how the remainder of the contract will be paid.	0.00%	
4.3.03	1111	The Tenderer Shall submit a Full Government Furnished Assets List iaw Annex G of the Draft Contract.	C	C/NC	OTS	C	C		0.00%	0.00%		Input from TMSILS required.	0.00%	
4.3.04	1113	The Tenderer Shall submit a Full Foreground & Background IPR list iaw Annex H of the Draft Contract.	C	C/NC	OTS	C	C		0.00%	0.00%		Very little foreground IP (Integration, Test Set, Training Variants). All EPLB systems background IP.	0.00%	
4.3.05	1110	The Tenderer Shall submit Firm man day rates and profit rates for 5 years iaw Annex K of the Draft Contract.	C	C/NC	OTS	C	C		0.00%	0.00%		Tenderer replied complete	0.00%	
4.3.06	1129	The Tenderer Shall submit Firm prices for the Options as detailed within Annex Q of the Draft Contract.	C	C/NC	OTS	C	C		0.00%	0.00%		Tenderer replied complete	0.00%	
4.3.07	1130	The Tenderer Shall submit Firm prices for the replacement LRUs iaw Annex T of the Draft Contract.	C	C/NC	OTS	C	C		0.00%	0.00%		Was not intially submitted due to a reasonable misinterpretation error in the Tender. APS-SCO advised to ask for the Annex T on 11 Feb 2014	0.00%	
4.3.08	1106	If no Corporate Agreement exists the Tenderer Shall Provide a Full DEFFORM 30 by completing Annex I of the SNITs.	C	C/NA/NC	OTS	C	C		0.00%	0.00%			0.00%	
4.3.09	1109	The Tenderer Shall submit a Full WLC Questionnaire iaw Annex D of the SNITs.	C	C/NC	OTS	C	C		0.00%	0.00%		No WL Costs declared	0.00%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
4.3.10	1112	If any elements of the System are subject to Export Control, the Tenderer Shall provide appropriate Export Control Information.	C	C/NA/NC	OTS	C	C		0.00%	0.00%		Tenderer is experienced on obtaining export licences for the equipment e.g. like the equipment delivered with the proposal. No issues envisaged by the Tenderer. Not subject to ITAR.	0.00%	
4.3.11	1133	The Tenderer shall submit a completed quarterly In Service Support payment plan by completing Annex V to the Draft Contract.	C	C/NC	OTS	C	C		0.00%	0.00%		Plan provided tallies with items 4 and 5; intial and full ILS. Upfront long lead buys proposed.	0.00%	
4.3.12	1134	The Tenderer shall submit details of any held DAOS accreditation, or details of how DAOS accreditation is to be achieved, iaw SNITs Para 7.6.	C	C/NC	OTS	C	C		0.00%	0.00%		FTL are DAOS approved. UK.MAA.DAOS.65	0.00%	
4.3.13	1124	Commercial Officer's judgment of the level of residual Contract Risk and the ease with which the Tenderer's Commercial Proposal may be brought to a swift and mutually acceptable Contract position, with regard to the information supplied in response to Part 2 of the ITT and to the other items in this section.	See Evid	Report		Medium	Low	Low	1.00%	2.00%	2.00%		2.00%	S07
5		**Finance**							15.30%	15.58%	15.58%		**16.00%**	
5.01	1117	The Authority's assessment that the Tenderer has sufficient financial capacity to undertake the EPLB Project.	NA	C/NC		C	C		0.00%	0.00%		FTL have stated that they would be willing to enter into a DEFFORM 24 Deed of Indemnity. In addition, they did receive a PASS rating from CAAS.	0.00%	
5.02	1118	The Tenderer Shall submit proof of Employer's Liability Insurance (or equivalent) iaw SNITs Para 7.12.1.	C	C/NC	OTS	C	C		0.00%	0.00%		The Tenderer has provided a copy of liability insurance at £5M. No contract liabilities have been proposed by the Tenderer.	0.00%	

Ser	ID	Requirement	Bid	Units	Dev/ OTS	Pess Perf	Face Perf	Opt Perf	Pess Score	Face Score	Opt Score	Assessor's Comments	MACE Weight	M of P
5.03	1122	The sum of all prices supplied in response to the WLC Spreadsheet, adjusted by the Authority for additional costs that fall to the Authority not accounted in the WLC Spreadsheet, is £M —.		£M		17.3	14.7	14.7	15.30%	15.58%	15.58%	F and O scores based upon SOR + Support Extension Options	16.00%	CL01

Colour Key for Table of Assessment Inputs



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