

FATS D&E Schedule 3 (Tasking Order Form)

FINAL

Tasking Identification

Unique Tasking Order Number	FTS/DE/CCT334	Version No. & Date	FINAL v2 26/06/2017
FATS Business Case Number	Original FBC6278 Amendment FBC (FATS team supplied)	Unique Reference Number	FATS/D&E/213
Project / Equipment for which task is in support		UOR	
Task Title	Specialist Technical Support to the BLOS Spacecraft and Communications Service Delivery Team		
NCA's Selected (in accordance with MKM search)	NCA <u>Numbers</u> : 4210, 4310, 4330, 4680, 4740, 4770, 4840, 4870, 4890, 4900, 4960, 5060, 5080		

Please refer to FATS Customer Guidance for definition of Work Category

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Directorate & PT / Organisation Title</td> <td style="width: 80%;">BLOS</td> </tr> <tr> <td>PT Leader/ Project Manager</td> <td>[REDACTED]</td> </tr> <tr> <td>Post</td> <td>[REDACTED]</td> </tr> <tr> <td>Address</td> <td>Hawthorn, 1001 Skynet Drive</td> </tr> <tr> <td></td> <td>Corsham</td> </tr> <tr> <td></td> <td>Wiltshire</td> </tr> <tr> <td>Postcode</td> <td>SN13 9NP</td> </tr> <tr> <td>Telephone / Fax No</td> <td>01249 853687</td> </tr> <tr> <td>E-mail</td> <td>[REDACTED]</td> </tr> <tr> <td>UIN & RAC</td> <td>[REDACTED]</td> </tr> </table>	Directorate & PT / Organisation Title	BLOS	PT Leader/ Project Manager	[REDACTED]	Post	[REDACTED]	Address	Hawthorn, 1001 Skynet Drive		Corsham		Wiltshire	Postcode	SN13 9NP	Telephone / Fax No	01249 853687	E-mail	[REDACTED]	UIN & RAC	[REDACTED]	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Supplier Name</td> <td style="width: 80%;">QinetiQ Ltd</td> </tr> <tr> <td>Post</td> <td>[REDACTED]</td> </tr> <tr> <td>Address</td> <td>Room A012 Woodward Building</td> </tr> <tr> <td></td> <td>Malvern Technology Centre</td> </tr> <tr> <td></td> <td>St Andrews Road</td> </tr> <tr> <td></td> <td>Malvern</td> </tr> <tr> <td>Postcode</td> <td>WR14 3PS</td> </tr> <tr> <td>Telephone / Fax No</td> <td>[REDACTED]</td> </tr> <tr> <td>E-mail</td> <td>[REDACTED]</td> </tr> <tr> <td>CPV Code</td> <td></td> </tr> </table>	Supplier Name	QinetiQ Ltd	Post	[REDACTED]	Address	Room A012 Woodward Building		Malvern Technology Centre		St Andrews Road		Malvern	Postcode	WR14 3PS	Telephone / Fax No	[REDACTED]	E-mail	[REDACTED]	CPV Code	
Directorate & PT / Organisation Title	BLOS																																								
PT Leader/ Project Manager	[REDACTED]																																								
Post	[REDACTED]																																								
Address	Hawthorn, 1001 Skynet Drive																																								
	Corsham																																								
	Wiltshire																																								
Postcode	SN13 9NP																																								
Telephone / Fax No	01249 853687																																								
E-mail	[REDACTED]																																								
UIN & RAC	[REDACTED]																																								
Supplier Name	QinetiQ Ltd																																								
Post	[REDACTED]																																								
Address	Room A012 Woodward Building																																								
	Malvern Technology Centre																																								
	St Andrews Road																																								
	Malvern																																								
Postcode	WR14 3PS																																								
Telephone / Fax No	[REDACTED]																																								
E-mail	[REDACTED]																																								
CPV Code																																									

Date Draft Tasking Order Issued 02/03/2017

Deadline for Authority's receipt of Tenderer's response to the Draft Tasking Order 29/03/2017

	1. Schedule of Requirements <i>Brief summary of requirement – full details appear below in the Statement of Requirement</i>	
Item No	Description	Firm Price £ (Ex VAT)
1	Technical support required in spacecraft Nuclear Hardening (NH) discipline and the assessment of the benign and enhanced space environment for the SKYNET 4 & 5 Constellation	
2	Technical support required in the assessment of operational impact of reported spacecraft anomalies and observations.	
3	Technical support required in the assessment of operation and performance of the SKYNET Constellation payloads, at X-Band and UHF (including enhanced UHF, CPM waveforms (e.g IW, SMC2 ETC) as utilised by Military and Commercial Standards.	
4	Technical support required to analyse and assess the aggregate capacity and capability of Skynet to respond to episodes of increased threat, stress, jamming and how the Ground Segment and specific satellites respond including Geolocation X-Band and UHF based.	
5	To support the communications, Miscellaneous and Terminals Services elements of the Skynet PFI programme.	
6	To assist BLOS with the assurance of contract support activities.	
7	To analyse and assess the aggregate capacity and capability and physical space within SGS Colerne and SGS Oakhanger.	
8	Travel and Subsistence – Limit of Liability (to be billed and paid on actuals) – 1 st July 2017 to 30 th June 2020	
	Total	
Optional Tasks	Technical support required for assessment of proposals for the provision of new services, enhancements and information arising to support exit transition strategies under the SKYNET 5 PFI Contract.	Man Days to be agreed (if needed) – see below for rates

Rates for Optional Tasks

The firm day rates (Ex VAT) and for optional tasks shall be as follows:

Firm Day Rate (£ Ex VAT)			
Assistant	Engineer	Principal	Director

STATEMENT OF REQUIREMENT

Unique Tasking Order Number: FTS/DE/CCT334	Issue Number & Date: FINAL v2 – 26/06/2017	Unique Reference Number: FATS/D&E/213
Task Title: SUPPORT TO THE BLOS SPACECRAFT CONTROL REGIME AND SATELLITE COMMUNICATION SERVICES TEAM		
<p>Brief Description of Task:</p> <p>There is a requirement for Specialist Technical Support to assist Project Managers in Networks to deliver the assurance commitments contained in the Skynet 5 PFI contract.</p> <p><i>(or see attached detailed Statement of Requirement)</i></p>		
<p>Background/Justification:</p> <p>The Skynet Constellation comprises of 7-Military Satellites in Geostationary orbits from approximately 90 degrees East to 30 degrees West. MOD's responsibility is that of owner (Skynet 4) and prime Service user and PFI Partner for Skynet 5. The MOD has in-depth experience in the Space & Spacecraft Control regime, but has never considered it appropriate for full or even limited transfer of knowledge/Skills of the Space Environment, Satellite Orbit Mechanics, especially Spacecraft Nuclear Hardening. Project officers in the past have managed with assistance from technical specialists.</p> <p>From the launch of Skynet 4B in Dec 1989 to Mar 2014, MOD has utilised Technical Engineering Support (TS) in assisting MOD to deliver satellite services. From 1989 to 1999, TS took the form of DERA scientists/specialists supporting appropriate project officers and in 2000 QinetiQ provided the service annually. In Apr 2011, the enduring external TS ceased with the introduction of new MOD Policy relating to Procurement Coherence. Annual Business Cases from Dec 11 approved the use of TS until the end of the Mar 2014. Business Case DES Net BLOS SatPr-TS14/17 approved for use of TS from April 2014 to March 2017. Business Case ISS Net BLOS STPM2-TS17/20 is approved for use of TS from April 2017 to March 2020.</p>		
<p>Activities to be Undertaken:</p> <p>Space Task 1:</p> <p>Technical support required in Spacecraft Nuclear Hardening (NH) Discipline and the Assessment of the Benign and Enhanced Space Environment for the SKYNET 4 & 5 Constellation. Reports are to be provided on Expected Solar Cycle disciplines, covering the Equinoxes and Seasonal changes. It will also include monitoring developments in the definition of super-storm space weather events, e.g. a Carrington Event. Assessment of Radiation effects of Single Event Upsets and Single Event Effects upon End-Of-Life of the Satellites will be required in conjunction with the degradation of the NH aspects annually. Finally, the End-of-Life determination for fuel as impacted by cessation of NS Station Keeping on Spacecraft launch anniversary or as tasked by ISS.</p> <p>Space Task 2:</p> <p>To analyse the Operational Impact of reported Spacecraft anomalies and observations. Reporting upon the Anomalous behaviour with an understanding of E3000 & earlier platforms during the expected Solar Cycle, Single Event Upsets and Single Event Effects. Reporting upon their impact on the SKYNET Constellation including the impact of anomalies and observations through the life of the constellation of spacecraft. Produce written reports for anomalous behaviours, attendance at the quarterly Spacecraft Operations and Anomaly Progression Group (SOAPG) meetings at Hawthorn & verbal updates.</p> <p>Space Task 3:</p> <p>Technical support required in the assessment of the operation and performance of the SKYNET Constellation payloads, at X-Band and UHF, enhanced UHF, CPM waveforms (e.g IW, SMC2 etc) as utilised by Military and Commercial Standards. This will entail detailed evaluation of the Through Life</p>		

Testing (TLT), Capacity, Survivability and Constellation Availability & Reliability across the communications spectrum. Support of these disciplines will be undertaken via Reports and attendance at the quarterly Aggregate Working Group.

Space Task 4:

To analyse and assess the aggregate capacity and capability of Skynet to respond to episodes of increased Threat, Stress, Jamming and how the Ground Segment and specific Satellites respond including Geolocation X-band and UHF based. In addition, evaluate the output from the Annual Response To Stress (RTS) exercise on Skynet Constellation (4 & 5), with respect to ISSP 5 (or subsequent Policy Directive). This Exercise is to assess Airbus D&S's capability to successfully progress a RTS event, which also validates the Network Scenario Planning Tool (NSPT) tool, the Paradigm Modem System modem, the Management Segment and Spacecraft Control Operations Facility (SCOF). Review existing Airbus's Processes and Procedures and produce a series of reports (one per sub-task) which include but are not limited to the following:

Assurance Task 1:

To support the Communications, Miscellaneous and Terminal Services elements of the SKYNET PFI programme. Topics to be undertaken include the following, as determined by the requirements of the BLOS team.

Assurance Task 2:

To assist BLOS with the assurance of contract support activities.

Assurance Task 3:

To analyse and assess the aggregate capacity and capability and physical space within SGS Colerne and SGS Oakhanger remaining cognisant to the ever changing and increasing communication requirements and the ability to deliver services in the most effective way.

Deliverables:

See Below Key DeliverablesTable

Key Project Indicators (KPIs):

As the time to undertake this work is seen as a key performance target, it is a specific requirement that the successful bidder will provide a detailed account of how the activities will be undertaken, as derived from the key deliverables document. This includes the timescale in which each element will take to deliver, and the overall timeframe for deliverance of the contract in its entirety.

BLOS key stakeholders acceptance of methodology and report format.

BLOS acceptance of the report and conclusions contained therein within 5 days of submission from the contractor.

BLOS Key stakeholder acceptance of the report, in line with the methodology and format previously presented to the BLOS key stakeholders, following presentation of the results and an opportunity for input/comment.

Government Furnished Assets (GFA) (*List all GFA applicable to the task in accordance with DEFCON 611 (Edn 07/10)& 694 (Edn 02/12))*):

Access will be required to Airbus Defence & Space Hawthorn OSB.

The supplier will require access to DII including a Computer Terminal and Access to Authority Documents and Information for Data Gathering.

Additional Quality Requirements & Standards:

No specific Quality Management System requirements are defined. This does not relieve the Supplier of providing conforming products under this contract. CoC shall be provided in accordance with DEFCON627.

No Deliverable Quality Plan is required reference DEFCON602B 12/06.

Concessions shall be managed in accordance with Def Stan. 05-61 Part 1, Issue 5 – Quality Assurance Procedural Requirements – Concessions.

Any contractor working parties shall be provided in accordance with Def Stan 05-61 Part 4 Issue 3 – Quality Assurance Procedural Requirements - Contractor Working Parties.

See AOF Quality Assurance Website:
<http://aof.uwh.diif.r.mil.uk/aofcontent/tactical/quality>

Timescale :

Commencement Date : 1st July 2017

Delivery Date: 30th June 2020

Project Manager:

Martin Hatherly
Networks BLOS AsstHd
Hawthorn OSB
1001 Skynet Drive
Corsham SN13 9NP

Signature:

Date:

Key Deliverables

Task No	Activities to be Undertaken by Supplier	Key Deliverables and Required Delivery	List all GFA (if required)	Acceptance Criteria
1	Space Task 1: Technical support required in Spacecraft Nuclear Hardening (NH) Discipline and the Assessment of the Benign and Enhanced Space Environment for the SKYNET 4 & 5 Constellation. Reports are to be provided on Expected Solar Cycle disciplines, covering the Equinoxes and Seasonal changes. It will also include monitoring developments in the definition of super-storm space weather events, e.g. a Carrington Event. Assessment of Radiation effects of Single Event Upsets and Single Event Effects upon End-Of-Life of the Satellites will be required in conjunction with the degradation of the NH aspects annually. Finally, the End-of-Life determination for fuel as impacted by cessation of NS Station Keeping on Spacecraft launch anniversary or as tasked by ISS.	a) Analyse and advise on developments in the vulnerability of technology to space and nuclear environments and on the evolution of standards in order to maintain an up to date risk assessment for the Skynet constellation. This includes monitoring developments in the definition of super-storm space weather events such as the Carrington Event and advising on potential impact. Twice yearly or when appropriate to "warn" Operations. b) Engagement and reporting upon Space Operator Training, planning and Exercises relating to Weather and Stress Events. Reports delivered in October and March each year. c) An Annual calculation of individual Spacecraft NH Lifetime with regard to SEE/SEU and post any Event, all of which may have impact upon End Of Life calculations. A report to be delivered by 31 Jan of each year. d) A qualified analysis of the Satellite Capabilities in the varying Solar Cycles and provide a judgement as to the validity of the Airbus GC Assurance Criteria of Skynet Constellation for MOD. Report quarterly, 30-days after an Equinox. e) An analysis and calculation, as an annual		Twice Yearly Reports March each year 31 Jan each Year Quarterly Annually

[illegible]

	Reliability across the communications spectrum. Support of these disciplines will be undertaken via Reports and attendance at the quarterly Aggregate Working Group.	<p>quarterly by Airbus D&S. The judgement shall reflect upon comparison of any options presented by Airbus D&S relative to the CISD detailing the impacts (both technical & financial) that any of the options have on the delivery of all services across the Constellation. Reports quarterly prior to Aggregate Working Group Meetings.</p> <p>c) Report annually, by 31 Jan, as to the performance of the UHF Tacsat Services across the Constellation and their utilisation of differing waveforms. The analysis should also include the JFC/C4i J6 planning process(s) (ISSP 5) associated with Legacy Tacsat and Enhanced UHF Tacsat services in their applicability to the Skynet 5 Contract and CISD requirements.</p> <p>d) Report annually, by 31 Jan, to the TLT performance of the X & UHF Payloads across the Constellation and their platform capabilities. The analysis should compare and highlight any degradation against the agreed FSDM reliability models (Sky 5 only).</p>		<p>31 Jan annually</p> <p>31 Jan annually</p> <p>31 Jan annually</p>
4	<p>Space Task 4:</p> <p>To analyse and assess the aggregate capacity and capability of Skynet to respond to episodes of increased Threat, Stress, Jamming and how the Ground Segment and specific Satellites respond including Geolocation X-band and UHF based. In</p>	a) Monitor and comment, after each major incident, on related Incidents of Stress and Jamming of the Skynet Constellation. In addition, reporting on the Space and Ground segment response, with or without Geolocation utilities, to the incidents. Thirty days		30 days after incidents and/or quarterly prior to Agg WG Gp

	<p>addition, evaluate the output from the Annual Response To Stress (RTS) exercise on Skynet Constellation (4 & 5), with respect to ISSP 5 (or subsequent Policy Directive). This Exercise is to assess Airbus D&S's capability to successfully progress a RTS event, which also validates the Network Scenario Planning Tool (NSPT) tool, the Paradigm Modem System modem, the Management Segment and Spacecraft Control Operations Facility (SCOF). Review existing Airbus's Processes and Procedures and produce a series of reports (one per sub-task) which include but are not limited to the following:</p>	<p>following an incident and in-line with quarterly Aggregate Working Group Meetings.</p> <ul style="list-style-type: none"> b) A qualified judgement as to the completeness and validity of the Skynet 5 capability to respond to stress events, including an assessment of the performance achieved in the annual RTS exercise, thirty days following the Exercise; This will include: <ul style="list-style-type: none"> I. Assessment of the PMS performance, waveform usage, reliability, capability and deployment to fulfil the requirements for military modes and states of operation in support of RTS II. Verification and validation of the NSPT including the interface with the management segment, including the overall capability of the management segment to plan and implement stressed communications services. III. Assessment of the Geolocation utilities, training and capability, X-band and UHF both utilising the Space and ground segments. c) A justified recommendation for the RTS Procedures as aligned with the current RTS Exercise and MOD Order Threat Scenario including Anti-Jam (AJ) 	<p>Annually/each Nov (30 days following Annual Ex)</p> <p>28 Feb annually</p> <p>Pre-Exercises (max 2/year)</p>
--	--	--	--

		<p>aspects which are to be reflected in ISSP 5. Reporting by 28 Feb each year.</p> <p>d) Engage and evaluate the Jamming capability of any Astrium or MOD asset proposed for use with the SKYNET Constellation. This will also include engagement with International & National exercise planning for Jamming.</p>		
5	<p>Assurance Task 1: To support the Communications, Miscellaneous and Terminal Services elements of the SKYNET PFI programme. Topics to be undertaken include the following, as determined by the requirements of the BLOS team.</p>	<p>a) Continuous review of the assurance of C services, including reporting on the effectiveness of existing assurance activities and recommendations for improvement where appropriate.</p> <p>b) Supporting assurance activities for specific projects. These currently include MNE, SIBS and Skynet East, with possible future projects to include GiN into Core, GC Migration and Colerne enclave. This list may be added to or modified by mutual agreement.</p> <p>c) Introduction of new terminals and the assurance of these.</p> <p>d) Land, sea and air terminal refresh projects.</p> <p>e) Attendance at Maritime Service Review meetings and associated PMS ship fit topics such as ESM testing.</p> <p>f) Witnessing and analysis of implications of VV&T</p> <p>g) Overall GCN architecture considerations.</p>		<p>When requested</p>

		<p>Deliverables should include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> • Report on the efficacy of the assurance of C Services at a time determined by the Authority. Any anomalous or notable findings to be reported in the interim. • Report upon the conclusion of testing for SKYNET East, identifying positives and negatives, lessons learned. • Reporting on the Assurance Programme and VV&T for MNE. • Reporting on the Assurance Programme and VV&T or SIBS • Evaluation of new terminals and assurance of these. • Evaluation of the assurance of Land, Sea and Air terminal refresh projects. 		
6	<p>Assurance Task 2: To assist BLOS with the assurance of contract support activities.</p>	<ul style="list-style-type: none"> a) D services as required, building upon previous work undertaken during the D5/D7 study. b) Assurance of management segment releases, identifying potential concerns where system changes may lead to reporting or billing anomalies. c) Services billing, continuing the development of the PEBBLE billing methodology and making recommendations to resolve areas of ambiguity or disagreement between the Authority and the Contractor. d) Support to Network Management Reporting initiatives. 		<p>When requested</p>

		<p>Deliverables should include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> • Report on the efficiency of the assurance of D services, with particular emphasis on billing, at a time determined by the Authority. Any anomalous or notable findings to be reported in the interim. • Comment upon management segment releases as and when required. • Compile a review of PEBBLE after 12 months of activity, highlighting any notable successes, failures and lessons learnt, identifying areas for potential investigation in the future. • Comment upon proposals for Network Management Reporting proposals and make recommendations for changes or enhancements where appropriate. 		
7	<p>Assurance Task 3: To analyse and assess the aggregate capacity and capability and physical space within SGS Colerne and SGS Oakhanger remaining cognisant to the ever changing and increasing communication requirements and the ability to deliver services in the most effective way.</p>	<ol style="list-style-type: none"> 1. An annual report is to be provided in March each year, highlighting any capacity pinch points or capability issues along with a look at unused capacity or services recommending where this space or capability may be better put to use. 2. Provide on-going support to ground segment supportability within the AggWG, recommending where there may be issues in meeting CISD requirements and where a more detailed analysis would be of benefit. 3. Availability analyses for specific projects (similar to the work for Falklands). This will include continuation of more detailed availability work being undertaken for Oakhanger and Colerne. 4. Assure IPLC connectivity and associated 		<p>Annually</p> <p>Quarterly</p> <p>As requested</p> <p>Annually-Monthly</p>

		<p>capacity in SGS's to meet the current and potential future IER providing an initial report and potentially re-occurring annual report.</p> <p>5. Assistance with any assurance and availability/obsolescence studies conducted proving feedback within timescales required for each study expected to be no more than 2 a year.</p> <p>6. Assure the ability to meet the capacity requirements in accordance with the CISD if one SGS was lost based during the peak usage season.</p>		Annually
8	<p>Optional Tasks:</p> <p>New Service – A new communications terminal which has to be installed on a current platform such as a Ship or Land vehicle. Normally a replacement of a current terminal so that MOD has to be sure that not only does this new terminal provide an equivalent or better communications service than the one currently received but can operate with all legacy equipment's and services.</p> <p>Enhancements provision of a current communications service or terminal which is being extended to a new location/working environment in the world.</p> <p>Information requirements arising to support exit transition strategies of the SKYNET 5 PFI Contract.</p>	<p>Deliverables should include, but not necessarily be limited to:</p> <p>a. An assessment of whether the Airbus proposal will meet the MOD technical requirements of the new service/enhancement required.</p> <p>b. Whether the offering is consistent with the SKYNET PFI system currently in use and if it is not what impacts this may have on either the rest of the service provision or the new requirement.</p> <p>c. Whether the offering will meet the performance requirements specified by the MOD (both in the short term and until the end of the concession period).</p> <p>d. A statement on the quality of the testing undertaken before the introduction of the new service highlighting any perceived issues or areas of concern for the MOD. This may include attendance at specific tests or trials and witnessing certain elements on behalf of the MOD.</p> <p>e. Exist strategy impacts that may arise on the Satellite & Space environment, service delivery</p>		<p>As and when required.</p> <p>Firm priced man hour rate(s)</p>

Schedule 3
(Tasking Order Form)
to Contract Dated 14 April 2015

		<p>methods and the planning and management segment tools used in the Skynet 5 PFI Contract.</p> <p>A review of all Assurance documentation.</p> <p>a. Review of all technical assurance documentation for Networks Projects with particular reference to the Service Description and specification, the test scripts and plans and the Interface Control Documentation.</p> <p>b. To be completed within 2 weeks of the documentation being delivered by the Authority.</p>		
--	--	---	--	--

2. Order Conditions

All conditions of the framework shall apply as supplemented by the terms selected below. The two sets of conditions become a binding contract at the time of signature on the Schedule.

Type of Contract	
Competitive	<input checked="" type="checkbox"/>
Competitive Award Criteria & Weightings	Technical – 60% Financial – 40%
Reverse Auction used? <i>*For Reverse Auction advice and support contact DefComrclCPF-RevAuct@mod.uk</i>	<input type="checkbox"/>
Single Tender	<input type="checkbox"/>

General Conditions

DEFCON 624 (Edn 11/13) – Use of Asbestos in Arms, Munitions or War Materials	<input type="checkbox"/>	DEFCON 603 (Edn 10/04) – Aircraft Integration and Clearance Procedure	<input type="checkbox"/>
DEFCON 176A (Edn 06/08) – MOD Requirements For Competition In Subcontracting (Non-Competitive Main Contract)	<input type="checkbox"/>	Additional Conditions	<input type="checkbox"/>
<i>A sheet is to be attached detailing any conditions that have been added</i>			

DEFCON 514A (Failure of Performance under Research and Development Contracts)	<input type="checkbox"/>	DEFCON 514 (Edn 08/15) – Material Breach	<input checked="" type="checkbox"/>
DEFCON 656A (Edn 08/16) – Termination for Convenience	<input checked="" type="checkbox"/>	DEFCON 656B (Edn 08/16) – Termination for Convenience	<input type="checkbox"/>

Special Indemnity Conditions

DEFCON 661 (Edn 10/06) – War Risk Indemnity	<input type="checkbox"/>
DEFCON 661A (Edn 05/02) – War Indemnity Risk (Alternative Version)	<input type="checkbox"/>
DEFCON 684 (Edn 01/04) – Limitation upon Claim in Respect of Aviation Products	<input type="checkbox"/>
DEFCON 638 (Edn 11/14) – Flights Liability and Indemnity	<input type="checkbox"/>
Professional Indemnity Insurance	<input type="checkbox"/>

Pricing Conditions Required

Firm Priced at Outset *(this applies to all tasks other than by exception)* ☐

For single source tasks valued below £5M, the following conditions shall apply:

DEFCON 127 (Edn 12/14) – Price Fixing Condition for Contracts of a Lesser Value

DEFCON 812 (Edn 04/15) – Single Source Open Book

DEFCON 815 (Edn 04/15) – Contract Pricing Statement – Single Source Non-qualifying contracts

Exceptionally, if other than Firm Priced at Outset *(include additional conditions in attachment & complete Appendix 4)* ☐

Payment Terms

(Use of CP&F and Payment on Completion are the default)

DEFCON 522 (Edn 11/16) –
Payment and Recovery of Sums
Dues



(If applicable attach completed Form 522A)

DEFCON 693 (Edn 04/06) –
Government Procurement Card



Milestone/Stage Payments
(see DEFCON 649 (Edn 07/99) below) ☒

DEFCON 649 (Edn 12/16) – Vesting
(applicable to Tasks with deliverables where provision has been made for milestone/Stage payments in advance of completion) ☐

DEFCON 5J (Edn 11/16) – Unique
Identifiers



DEFCON 129 (Edn 11/16) – Packaging
(For Articles other than Ammunition & Explosives) ☐

Alternative Payment Arrangements Required































(Where payment cannot be made through the MOD invoice payment department (e.g. for tasks placed by other Government departments), please provide full details of the payment procedure to be followed, as an attachment to this tasking form) ☐

Milestone/Stage Payments


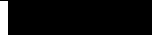






























(Expand table as appropriate)





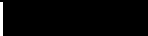


Milestone /Stage No	Key Deliverable	Due Date	%	Value £k (ex VAT)
1	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – July 2017	31/07/2017	<input type="checkbox"/>	<input type="checkbox"/>
2	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables	31/08/2017	<input type="checkbox"/>	<input type="checkbox"/>

Schedule 3
(Tasking Order Form)
to Contract Dated 14 April 2015

	table – August 2017			
3	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – September 2017	30/09/2017		
4	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – October 2017	31/10/2017		
5	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – November 2017	30/11/2017		
6	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – December 2017	31/12/2017		
7	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – January 2018	31/01/2018		
8	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – February 2018	28/02/2018		
9	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – March 2018	31/03/2018		
10	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – April 2018	30/04/2018		
11	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – May 2018	31/05/2018		
12	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – June 2018	30/06/2018		
13	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – July 2018	31/07/2018		
14	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – August 2018	31/08/2018		
15	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – September 2018	30/09/2018		
16	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – October 2018	31/10/2018		
17	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – November 2018	30/11/2018		

Schedule 3
(Tasking Order Form)
to Contract Dated 14 April 2015

18	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – December 2018	31/12/2018		
19	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – January 2019	31/01/2019		
20	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – February 2019	28/02/2019		
21	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – March 2019	31/03/2019		
22	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – April 2019	30/04/2019		
23	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – May 2019	31/05/2019		
24	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – June 2019	30/06/2019		
25	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – July 2019	31/07/2019		
26	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – August 2019	31/08/2019		
27	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – September 2019	30/09/2019		
28	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – October 2019	31/10/2019		
29	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – November 2019	30/11/2019		
30	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – December 2019	31/12/2019		
31	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – January 2020	31/01/2020		
32	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – February 2020	29/02/2020		
33	Acceptance of Monthly Progress Report covering	31/03/2020		

	ongoing activities as defined in Key Deliverables table – March 2020			
34	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – April 2020	30/04/2020		
35	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – May 2020	31/05/2020		
36	Travel and Subsistence – Limit of Liability (to be billed and paid on actuals)	30/06/2020		
FINAL (Payment should be subject to a reasonable retention based on % of total cost)	Acceptance of Monthly Progress Report covering ongoing activities as defined in Key Deliverables table – June 2020 + Satisfactory delivery of all work under the contract	30/06/2020		

Intellectual Property Rights

Completion of this section is **mandatory**. Select the appropriate condition(s) by ticking the boxes below after consulting FTS/STS Customer Guidance or with DIPR, if appropriate. In the event that no boxes are ticked in this section (Intellectual Property Rights), all intellectual property generated under the Task shall be subject to the terms of DEFCON 703.

DEFCON	Tick As Applicable		Tasking Order Line Item (tick as appropriate)
<u>If DEFCON 703 does not apply then select either:</u>			
DEFCON 705 (Edn 11/02)	<input type="checkbox"/>	All <input type="checkbox"/>	<input type="checkbox"/> The following Item Nos. only (insert below)
<u>OR:</u>			
DEFCON 14 (Edn 11/05), 15 (insert edition that applies) 21 (insert edition that applies), 126 (Edn 11/06) & DEFFORM 315	<input type="checkbox"/>	All <input type="checkbox"/>	<input type="checkbox"/> The following Item Nos. only (insert below)
DEFCON 14 (Edn 11/05), 16 (Edn 10/04), 21 (insert edition that applies) & DEFFORM 315	<input type="checkbox"/>	All <input type="checkbox"/>	<input type="checkbox"/> The following Item Nos. only (insert below)
DEFCON 14 (Edn 11/05), 90 (Edn 11/06) & 126 (Edn 11/06)	<input type="checkbox"/>	All <input type="checkbox"/>	<input type="checkbox"/> The following Item Nos. only (insert below)
DEFCON 14 (Edn 11/05), 91 (Edn 11/06) & 126 (Edn 11/06)	<input type="checkbox"/>	All <input type="checkbox"/>	<input type="checkbox"/> The following Item Nos. only (insert below)

Other, as specified in a special IPR condition to be applied to the Tasking Order	<input type="checkbox"/>	All <input type="checkbox"/>	<input type="checkbox"/> The following Item Nos. only (insert below)
No intellectual property conditions apply (<i>refer to DIPR before ticking this box</i>).			<input type="checkbox"/>

Issue of Government Stores	
DEFCON 23 (<i>Edn 08/09</i>)* – Special Jigs, Tooling and Test Equipment	<input type="checkbox"/>

Controlled Information	
Issue of Controlled Information (<i>subject Condition 50 of Schedule 1</i>) (<i>if ticked then list Controlled Information and attach list to Tasking Form</i>)	<input type="checkbox"/>

Payment of Customs Duty – select one box only			
DEFCON 619A (<i>Edn 09/97</i>) – Customs Duty Drawback	<input type="checkbox"/>	Issue of Certificate in accordance with EU (Council) Regulation 150/2003	<input type="checkbox"/>

Progress Reports					
If ticked, progress reports must utilise the current version of DRRS Format Standards for Scientific and Technical Reports Prepared for the United Kingdom Ministry of Defence.	<input type="checkbox"/>	DEFCON 642 (<i>Edn 06/14</i>) – Progress Meetings	<input checked="" type="checkbox"/>	Frequency required	Monthly
Brief Description					

Transport – select one box only			
DEFCON 621A (<i>Edn 06/97</i>) – Transport (if the Authority is responsible for transport)	<input type="checkbox"/>	DEFCON 621B (<i>Edn 10/04</i>) – Transport (if the Contractor is responsible for transport)	<input type="checkbox"/>

Liquidated Damages applicable? Tick box if “Yes” (<i>Refer to Condition 39 of Schedule 1</i>)			<input type="checkbox"/>
Task Item 1	£	per day/week/month up to a maximum of £	
Task Item 2	£	per day/week/month up to a maximum of £	
Task Item 3	£	per day/week/month up to a maximum of £	
Task Item 4	£	per day/week/month up to a maximum of £	
Task Item 5	£	per day/week/month up to a maximum of £	
Force Majeure			
Maximum period of extension of time in the case of a Force Majeure Event			

Quality Assurance Conditions

According to the product or scope of the work to be carried out, the Contractor shall meet the requirements of:

AQAP 2110 – NATO Quality Assurance Requirements for Design, Development and Production ☐

Deliverable Quality Plan requirements

DEFCON 602A (Edn 12/06) – Quality Assurance with Quality Plan ☐ DEFCON 602B (Edn 12/06) – Quality Assurance without Quality Plan ☒

AQAP 2105 – NATO Requirements for Delivering Quality Plans ☐

Software Quality Assurance requirements

AQAP 2210 – NATO Supplementary Software Quality Assurance Requirements to AQAP 2110 ☐

Air Environment Quality Assurance requirements

Def. Stan. 05-100 – Ministry of Defence Requirements for Certification of Aircraft for Authorised Flight and Ground Running (Mandatory where flying and/or ground running of issued aircraft is a requirement of the Task) ☐

Relevant MAA Regulatory Publications (See attachment for details) ☐

Additional Quality Requirements (See attachment for details) ☐

Warranty

Express Warranty (See attachment for details) ☐ Warranty – remedies implied by general law ☐

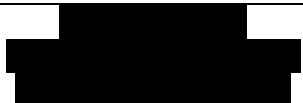
Security

DEFCON 659a (11/14) and DEFCON 660 (11/14) – Reportable Official Sensitive Security Requirements.

To be sent and agreed upon Contract Placement



3. Price

TOTAL CONTRACT PRICE	TYPE OF PRICING
	Firm

4. Authority Tasking Order Commercial Officer Authorisation

Name
Position
Signature

Name	
Position	
Signature	
Date	Telephone Number

5. Acknowledgement by supplier

Name	
Position	
Signature	
Date	Telephone Number

6. Record of Authorised Changes

CHANGE ISSUE NUMBER	DATE OF ISSUE	COMMENTS / REASON FOR CHANGE

7. Final Administration

Where the output of any research or study is a Technical Report, the Report is to be completed in accordance with the current version of the ATHENA Defence Research Reports Specification - 'Format Standards for Scientific and Technical Reports Prepared for the United Kingdom Ministry of Defence'. MOD Customers may obtain this document via the www.dstl.gov.uk. **The Contractor** shall send a copy of the report on CD ROM in unlocked pdf.format to:

Dstl Knowledge & Information Services,
Bldg 247,
Dstl Porton Down,
Salisbury
Wilts SP4 0JQ.
Tel: 01980 613971

Any staff on DII can search the ATHENA system via the online science gateway to ascertain if particular research or a study already exists. Access can be requested utilising a password (supplied) via this link: <http://osg.dstl.r.mil.uk/SignIn/SignIn.aspx/>

On receipt of the order acknowledgement from the Contractor, the Authority's Commercial Manager (who placed the task) must send a copy of the acknowledged final tasking order form together with a completed DEFFORM 57 AND DEFFORM 111 (Edn 08/14) to:

DBS Finance
Walker House
Exchange Flags
Liverpool
L2 3YL

A copy of the acknowledged final tasking order form must be sent by the **Authority's Commercial Manager (who placed the task)** and by the Contractor electronically to the FATS team at the following address:

defcomrclcc-fatscases@mod.uk

However, if this is not possible, please send a hard copy to:

Def Comrcl CC-TechSpt1c
Poplar Level 1 #2119
MOD Abbey Wood South
Bristol
BS34 8JH

Appendix 1 to Schedule 3 (Tasking Order Form) – DEFFORM 111

DEFFORM 111
(Edn 08/15)

Appendix - Addresses and Other Information

1. Commercial Officer

Name: [REDACTED]

Address: Floorplate B2, Building 405, MoD Corsham, Westwells Road, Corsham, SN13 9NR

Email: [REDACTED]



[REDACTED]

8. Public Accounting Authority

1. Returns under DEFCON 694 (or SC equivalent) should be sent to DBS Finance ADMT – Assets In Industry 1, Level 4 Piccadilly Gate, Store Street, Manchester, M1 2WD
☎ 44 (0) 161 233 5397

2. For all other enquiries contact DES Fin FA-AMET Policy, Level 4 Piccadilly Gate, Store Street, Manchester, M1 2WD
☎ 44 (0) 161 233 5394

2. Project Manager, Equipment Support Manager or PT Leader (from whom technical information is available)

Name: [REDACTED]

Address: Hawthorn, 1001 Skynet Drive
Corsham, SN13 9NP

E-Mail: [REDACTED]



[REDACTED]

9. Consignment Instructions

The items are to be consigned as follows:

3. Packaging Design Authority

(Where no address is shown please contact the Project Team in Box 2)

10. Transport. The appropriate Ministry of Defence Transport Offices are:

A. DSCOM, DE&S, DSCOM, MoD Abbey Wood, Cedar 3c, Mail Point 3351, BRISTOL BS34 8JH

Air Freight Centre

IMPORTS ☎ 030 679 81113 / 81114 Fax 0117 913 8943

EXPORTS ☎ 030 679 81113 / 81114 Fax 0117 913 8943

Surface Freight Centre

IMPORTS ☎ 030 679 81129 / 81133 / 81138 Fax 0117 913 8946

EXPORTS ☎ 030 679 81129 / 81133 / 81138 Fax 0117 913 8946

4. (a) Supply / Support Management Branch or Order Manager:

Tel No:

(b) U.I.N.

B. JSCS

JSCS Helpdesk No. 01869 256052 (select option 2, then option 3)

JSCS Fax No. 01869 256837

www.freightcollection.com

5. Drawings/Specifications are available from

11. The Invoice Paying Authority (see Note 1)

Ministry of Defence ☎ 0151-242-2000

DBS Finance

Walker House, Exchange Flags

Fax: 0151-242-2809

Liverpool, L2 3YL

Website is:

<https://www.gov.uk/government/organisations/ministry-of-defence/about/procurement#invoice-processing>

6. For contracts containing DEFCON 5, mauve Copies of MOD Form 640 are to be sent to

(where no address is shown the mauve copy should be destroyed)

12. Forms and Documentation are available through *:

Ministry of Defence, Forms and Pubs Commodity Management
PO Box 2, Building C16, C Site

Lower Arcott

Bicester, OX25 1LP (Tel. 01869 256197 Fax: 01869 256824)

Applications via fax or email: [DESLCSLS-](mailto:DESLCSLS-@mod.uk)

OpsFormsandPubs@mod.uk

7. Quality Assurance Representative:

Commercial staff are reminded that all Quality Assurance requirements should be listed under the General Contract Conditions.

AQAPS and **DEF STANs** are available from UK Defence Standardization, for access to the documents and details of the helpdesk visit <http://dstan.uwh.diif.r.mil.uk/> [intranet] or <https://www.dstan.mod.uk/> [extranet, registration needed].

NOTES

1. Forms. Hard copies, including MOD Form 640 are available from address in Box 12., All other invoicing forms e.g. AG Forms 169 and 173, are available from the website address shown at Box 11.

2.* Many DEFCONs and DEFFORMs can be obtained from the MOD Internet Site:

<https://www.aof.mod.uk/aofcontent/tactical/toolkit/index.htm>

Appendix 2 to Schedule 3 (Confidentiality Agreement)

The provisions of this Clause are supplemental to DEFCON 531

1 Both DEFCON 531 and the provisions of this Clause apply to:

- (A) This Tasking Order;
- (B) Any Information disclosed by either party prior to the issue of a draft Tasking Order and in contemplation of Work being placed by the Authority under a Tasking Order; and

I Any Task placed under this Agreement, provided that Information provided to a party for the purpose of Tendering for a Tasking Order shall only be used for that Tendering purpose, and Information provided to a party for performing a Task placed on it under this Agreement shall only be used for the performance of that Task.

2 Subject to its requirements of continued access to Information necessary to exercise its rights of disclosure and use hereunder including under any Tasking Order, and to the obligations set out herein in respect of any Controlled Information (Definition in Clause 43 Schedule 1), the recipient of any Information shall:

- (A) Upon the expiry or termination of the Agreement; or
- (B) Upon the expiry or termination of any Tasking Order (for the purposes of which Information is disclosed); or

I If the Authority decides not to proceed with the issue of a Tasking Order (for the purposes of which Information is disclosed),

in accordance with any reasonable directions given and/or a reasonable request made by the other party promptly:

- (1) Return to the other party the Information and all copies thereof; or
- (2) Take such other measures in respect of the Information and all copies thereof as may be required elsewhere in the Tasking Order.

3 The provisions of DEFCON 531 and of this Clause shall survive the expiry or termination of the Agreement or any Tasking Order in accordance with 2(A) or 2(B) or the decision not to proceed in accordance with 2(C).

Appendix 3 to Schedule 3 (Price Summary)

Supplier price summary: To be completed by the supplier in support of a quotation provided in response to an ITT for the requirement captured on the above Draft Tasking Order Form.

1. To:

2. From:

Date of submission:

In response to your request for a quotation
reference FTS/DE /

Dated

*The work can be undertaken and our detailed response is attached. ☐

*We are unable to provide the resources/deliverables identified on this occasion. ☐

(* Check box as appropriate)

Signed:

Name: (Block Capitals)

Date:

2. Task title):

3. Unique Reference Number:

4. Start Date:

Completion Date:

5a. Quotation

Broad Capability Area No.	Grade	Daily rate quoted at ITT	Daily rate quoted for this task	Reduction on original ITT rate	No of Hours	Total
---------------------------	-------	--------------------------	---------------------------------	--------------------------------	-------------	-------

5b. Travel

Unit cost

Number of Journeys / Miles

Total

Rail
Motor Mileage
Air
Sea

Estimated expenditure on:

Unit cost

Number of Night/Days

Total

5c. Subsistence

Accommodation

Meals

Misc (please state below)

The above T&S costs relate to the period to

5d.Other
Costs

Sub-contractor

Price

Sub-Contractor Details

Materials

Other (Please provide
details below)

Description

Cost

Total Price

(excl. VAT)

Appendix 4 to Schedule 3 (Contract Pricing Statement)

This is now DEFFORM 815, which is available on request from Def Comrcl CC-FATS Cases

Appendix 5 to Schedule 3 (Montreal Protocol Substances)

CFCs - Production of controlled CFCs has stopped.

CFC-11(trichlorofluoromethane)	CFC-211
CFC-12(dichlorodifluoromethane)	CFC-212
CFC-13	CFC-213
CFC-111	CFC-214
CFC-112	CFC-215
CFC-113 (trichlorotrifluoroethane)	CFC-216
CFC-114 (dichlorotetrafluoroethane)	CFC-217
CFC-115 (chloropentafluoroethane)	

The above substances are also used in blends: e.g.

CFC-500 (CFC-12/HFC-152a)

CFC-502 (CFC-115/HCFC-22).

Halons - Production of controlled Halons has stopped.

Halon-1211 (bromochlorodifluoromethane – BFC)

Halon-1301 (bromotrifluoromethane – BTM)

Halon-2402

HBFCs - Production has stopped.

CHBr ₂	C ₂ H ₂ F ₂ Br ₂	C ₃ HF ₄ Br ₃	C ₃ H ₃ F ₂ Br ₃
CHF ₂ Br	C ₂ H ₂ F ₃ Br	C ₃ HF ₅ Br ₂	C ₃ H ₃ F ₃ Br ₂
CH ₂ FBr	C ₂ H ₃ FBr ₂	C ₃ HF ₆ Br	C ₃ H ₃ F ₄ Br
	C ₂ H ₃ F ₂ Br	C ₃ H ₂ FBr ₅	C ₃ H ₄ FBr ₃
C ₂ HBrF ₄	C ₂ H ₄ FBr	C ₃ H ₂ F ₂ Br ₄	C ₃ H ₄ F ₂ Br ₂
C ₂ HF ₂ Br ₃		C ₃ H ₂ F ₃ Br ₃	C ₃ H ₄ F ₃ Br
C ₂ HF ₃ Br ₂	C ₃ HBrF ₆	C ₃ H ₂ F ₄ Br ₂	C ₃ H ₅ FBr ₂
C ₂ HF ₄ Br	C ₃ HF ₂ Br ₅	C ₃ H ₂ F ₅ Br	C ₃ H ₅ F ₂ Br
C ₂ H ₂ FBr ₃	C ₃ HF ₃ Br ₄	C ₃ H ₃ FBr ₄	C ₃ H ₆ FBr

HCFCs - Production to be run down and phased out by 2015.
Certain use controls apply.

HCFC-21	HCFC-141	HCFC-225ca	HCFC-243
HCFC-22	HCFC-141b	HCFC-225cb	HCFC-244
HCFC-31	HCFC-142	HCFC-226	HCFC-251
HCFC-121	HCFC-142b	HCFC-231	HCFC-252
HCFC-122	HCFC-151	HCFC-232	HCFC-253
HCFC-123	HCFC-221	HCFC-233	HCFC-261
HCFC-124	HCFC-222	HCFC-234	HCFC-262
HCFC-131	HCFC-223	HCFC-235	HCFC-271
HCFC-132	HCFC-224	HCFC-241	
HCFC-133	HCFC-225	HCFC-242	

CARBON TETRACHLORIDE (CCl₄) – Production has stopped.

1,1,1-TRICHLOROETHANE (C₂ H₃ Cl₃) – Production has stopped.

METHYL BROMIDE (CH₃Br) – **Production limits apply.**

Schedule 4 (Pricing Matrix)

(Schedule 4 FATS/D&E Day Rates are as per the suppliers tender)