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Variation Request Note (VRN): Part 1 - Request

VRN No.: 1 Title: 1 year extension to ESN A2G Network Design Assurance Partner				
Contract name a	nd Purchase Order No.:	Respond by date:		
ESN A2G Network Design Assurance Partner				
	-			
Assigned for Impact Assessment by				
(use if requesting an Impact Assessment before a supplier proposal to the VRN. If				
not used then insert "Not applicable"): Not Applicable				
Assigned for Impact Assessment to				
(use if requesting an Impact Assessment before a supplier proposal to the VRN. If				
not used then insert "Not applicable"): Not Applicable				
Full description of requested contract change (including proposed change to the wording of				
the contract):				
The Authority request the current contract ESN A2G Network Design Assurance				
Partner be extended for 1 year FY 2025/2026 to a value of £1,499,770 to be				
awarded to Roke Manor Research Limited.				
This extension is to cover testing of the ESN by Fixed and Rotary wing aircraft and				
also drone testing, alongside ground testing, data analyse and reporting.				
also drone testing, alongside ground testing, data analyse and reporting.				
Signature of Authorised Representative:				
Date of request:				

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Variation Request Note (VRN): Part 2 – Supplier's response

VRN No.: 1	Title: 1 year extension to ESN A2G Network Design			
Assurance Partner				
Contract name and Purchase Order No.:Required by date:ESN A2G Network Design Assurance PartnerImage: Contract name and Purchase Order No.:				
ESIN AZG Network Design As	surance Partner			
Milestone and key milestone dates (if any) Time and materials monthly billing				
Supplier response to Chang	ge Request Note Part 1 (or	r Impact Assessment)		
Overview				
modelling, simulation and d Departments and was appo	esign assurance services across inted as the Air-to-Ground (A2G)	providing independent technical, test, s multiple Commercial and Government) Design Assurance Partner (DAP) in Jul es Network (ESN) team in order to;		
	g a replacement communications	cing risk to meet the overall programme s system that is as good as, if not better		
(ii) provide independent design assurance, verification and validation services to provide increased confidence in end-user decision making, leading to an approval to proceed at the required governance milestones.				
This variation 1 is to extend the Term by 12 months, from 1 April 2025 to 31 March 2026.				
has delivered greater clarity	on role ownership with Roke co Assurance activities under the fo	in place since March 2020 which in turn mmitted to the technical ownership and ollowing work package themes:		
• WP1.1 - Fiz	xed wing testing			
• WP1.2 – R	otary wing testing			
• WP1.3 – D	rone testing			
o WP1.4 - Da	ata analysis and Reporting			
○ WP1.5 - Mo	odelling and Simulation			
 WP2 – Leadership 	and Programme Management			
WP 1 - Design Assurance	-			
addition to other sites of inte	erest employing increasingly repr egy. The activities to be perform	ata from the dedicated test network in resentative solutions to align with the ed under this work stream will include		
 Manage and direct the execution of test activity via the Joint Test Team (JTT) and in response to direct tasking issued via Test Team Task Request Proformas including the provision of all Test Readiness Reviews (TRR) and Test Completion Reviews (TCRs) in conjunction with all key stakeholders. 				
 Preparation and de 	velopment of all ground and fligh	nt test plans / trials instructions / test		

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scripts for each test phase to include the following activities:

- Fixed Vehicle Device:
 - Conduct a functional assessment of an aircraft-installed Fixed Vehicle Device (i.e. mode of operation, call/signal quality, range check etc.) in each of the Band 3, Band 20 and Band 40 environments.
 - Conduct a functional and performance assessment in both a static location / eNB (TBC) and dynamically when installed in an airborne fixed-wing environment using a combination of Fixed Vehicle Device, mast-based antennas and/or representative handsets to assess functionality (i.e. mode of operation, call/signal quality, range check etc.) in each of the Band 3, Band 20 and Band 40 environments.
 - Further aspects of this test campaign are to be defined throughout the duration of the contract and hence a level of flexibility and responsiveness to the planning of this phase is expected as part of the generation of future Test Plans. As a minimum, the following activities are assumed:
 - Batch / device characterisation of FVDs is required to gain a fuller understanding of unit behaviour, particularly maximum power output. This testing is required to understand absolute performance and range across several devices. The sample size remains TBC.
 - Implementation of Chelton production Antenna Model B into the test campaign as further system integration / de-risking activity. This is anticipated to include the integration of the following into a combination of both ground and air-based environments:
 - B Model Band 40 antenna
 - B Model Band 3 / 20 antenna
 - Conduct the required test and measurement activity in accordance with each of the Authority approved test plans and tasking forms in order to achieve each of the high-level objectives outlined above.
 - Procure, contract manage and direct the activities and outputs of the nominated Flight Test Partner (FTP) or other key suppliers as necessary to deliver the required flight test outcomes for the duration of the contract period.
 - Manage and assure the security and integrity of measured / captured test data for dissemination to the Authority and to inform future analysis and modelling activity to be undertaken against individual work packages.

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