

## CHINOOK PROJECT TEAM

23/04/2020

### STATEMENT OF REQUIREMENT FOR CHINOOK UNIQUE AIRCRAFT CABLING AND ASSOCIATED SPARES

#### Section 1 General Description

The Chinook fleet has been at the forefront of operations for several decades and the platform has been continually upgraded to meet the various changing threats and environments associated with each successive operation. Many of the modifications have been avionic and electronic related, including Electro Optic Sensor Turret (EOST), Defensive Aid Suite (DAS) and Integrated Hoist Operators Panel (IHOP).

CHC/543 was placed to cover the requirement due to low / no stock of many critical cables. With this expired, there is still a requirement to maintain stock of these cables in order to support current and future operations, such as Op Newcombe and Op Shader. As there is no intention for these cables to be managed under Through Life Customer Support (TLCS) or Future TLCS, a support contract is required to safeguard aircraft availability.

This SoR explains what is needed, why, how and when with respect to support for Chinook cables.

#### Section 2 Key System Requirements and Deliverables

All the cables listed in Table 1 are manufactured and supplied by TT Electronics-IMS. Selection of a third-party supplier would have a disproportionate impact on cost and time as any new design would have to be tested, trialled and cleared for use on the aircraft which could take several years at some considerable cost.

The Avionics EA have reviewed the contract list for CHC/543 and removed all items for which there is no longer required on the aircraft. These have been captured in Table 2. There are also items which have been added; these have been captured as part of Table 1.

The Contractor shall provide the necessary codification data to the MOD CHDT Supply Chain Management (SCM) Team in order to complete codification of all equipment. The CHDT SCM Team will input this information onto the appropriate systems in order that any spares procured can be maintained on the Management of the Joint Deployed Inventory (MJDI) Log IS.

The Contractor shall supply the Contract Deliverables (cabling and associated spares) in accordance with the specification and comply with any applicable quality assurance requirements as follows, but not limited to:

DEFCON 117 (SC2) Supply of Documentation for NATO Codification Purposes

DEFCON 602A (Quality Plan to complement AQAP 2105)

DEFCON 624 (SC) Use of Asbestos

DEFCON 627 (Certificate of conformity)

DEFCON 660 OFFICIAL-SENSITIVE Security Requirements (Security Aspects Letter to be issued if required)

DEFCON 681 Decoupling Clause – Subcontracting with the Crown

DEFCON 684 Limitation Upon Claims In Respect of Aviation Products

DEFCON 694 Accounting for Property of the Authority



- DEF STAN 00-035 Environmental Handbook for Defence Materiel
- DEF STAN 00-051 - Environmental Management Requirements for Defence Systems
- DEF STAN 00-056 - Safety Management Requirements for Defence Systems
- DEF STAN 05-061 Part 1 Issue 6 Quality Assurance Procedural Requirements
- Def Stan 05-061 part 1 issue 6 (Concessions)
- DEF STAN 05-135 Avoidance of Counterfeit Materiel
- DEF STAN 07-085 Design Requirements for Weapons and Associated Systems.
- DEF STAN 81-041 Packaging of Defence Materiel
- AQAP2310;
- AQAP 2210 v2 (if software is incorporated);
- AQAP 2105 (Quality plan);

All Contract Deliverables will be clearly and indelibly marked with the full NATO Stock Number (if available) and MOD stock reference number (Part Number) and details of shelf life where applicable including dates of manufacture and expiry.

The point of delivery will be RAF Odiham and stock will be stored in Electronic Storage Group (ESG), RAF Odiham.

The Contractor shall provide advance shipping notice to the CHDT SCM Team prior to delivery to RAF Odiham. Upon receipt on to MJDI, the CHDT SCM Team will confirm delivery to all parties. As part of this process, the Contractor will ensure adequate packaging, handling, storage and transportation requirements are met. The Contractor will provide a Certificate of Conformity for all spares purchased.

The Contractor shall supply the Contractor Deliverables to the Authority at the Contract price and advise of any applicable price breaks dependant on the quantity purchased in order to provide Value for Money (VfM). The Contractor shall advise of any applicable minimum order quantities.

The Contractor shall advise of cost, lead times and any price breaks to conduct repair action on any applicable existing Contract Deliverables.

The Contractor shall provide acceptable lead times for all individual items to the Authority for inclusion in the Contract and will adhere to these lead times for each order. The Contractor will notify the Authority of any diversion from these lead times and will work with the Authority to remedy the situation and limit the impact of a late delivery.

The Contractor is required to meet with the Authority for [REDACTED]

This duration of this contract should be for [REDACTED].

### Annex / Appendix

**Table 1 – Items required to be supported**

| Item No. | Item Nomenclature | Part Number    | Nato Stock Number | MACC | Forecast Qty for potential repair |
|----------|-------------------|----------------|-------------------|------|-----------------------------------|
| 1        | ALQ 156           | RAFSEE266040A2 | 5995-01-4511770   | C    | 0                                 |
| 2        | ALQ 156           | RAFSEE266041A2 | 5995-01-4511771   | C    | 0                                 |
| 3        | ALQ 156           | RAFSEE266019A2 | 5995-01-4511772   | C    | 0                                 |
| 4        | ALQ 156           | RAFSEE266023A2 | 5995-01-4511774   | C    | 0                                 |
| 5        | ALQ 156           | NC85440        | 5995-99-2887371   | C    | 0                                 |
| 6        | ALQ 156           | NC85439        | 5995-99-1352523   | C    | 0                                 |



|    |                     |                 |                 |   |    |
|----|---------------------|-----------------|-----------------|---|----|
| 7  | ALQ 156             | NC85442         | 5995-99-8980484 | C | 0  |
| 8  | ALQ 156             | NC85443         | 5995-99-7253713 | C | 0  |
| 9  | ALQ 156             | NC85469         | 5995-99-1352626 | C | 0  |
| 10 | ALQ 156             | NC85468         | 5995-99-3251898 | C | 0  |
|    |                     |                 |                 |   |    |
| 14 | RWR                 | NC85230         | 5995-99-6660409 | C | 0  |
| 15 | RWR                 | NC85229         | 5995-99-4774143 | C | 0  |
| 16 | RWR                 | NC85226         | 5995-99-5914385 | C | 0  |
| 17 | RWR                 | NC85227         | 5995-99-5496280 | C | 0  |
| 18 | RWR                 | NC85206         | 5995-99-7270192 | C | 0  |
| 19 | RWR                 | NC85207         | 5995-99-5496281 | C | 0  |
| 20 | RWR                 | NC85228         | 5995-99-6660410 | C | 0  |
| 21 | HUMS Mk3 (now Mk5)  | NC85488         | 6150-99-1908121 | L | 0  |
| 22 | HUMS Mk3 (now Mk5)  | NC85489         | 6150-99-1559637 | L | 0  |
| 23 | HUMS Mk3 (now Mk5)  | NC85490         | 5905-99-9259634 | L | 0  |
| 24 | HUMS Mk3 (now Mk5)  | NC85491         | 6150-99-8544818 | L | 0  |
| 25 | HUMS Mk3 (now Mk5)  | NC85492         | 5940-99-5643328 | L | 0  |
| 26 | HUMS Mk3 (now Mk5)  | NC85493         | 5999-99-8544820 | L | 0  |
| 27 | HUMS Mk3 (now Mk5)  | NC85494         | 5999-99-1712528 | L | 0  |
| 28 | HUMS Mk3 (now Mk5)  | NC85495         | 5940-99-6708531 | L | 0  |
| 29 | HUMS Mk3 (now Mk5)  | NC85496         | 5999-99-3736704 | L | 0  |
| 30 | HUMS Mk3 (now Mk5)  | NC85497         | 5999-99-7316937 | L | 0  |
| 31 | HUMS Mk3 (now Mk5)  | NC85481         | 6150-99-1870408 | L | 0  |
| 32 | HUMS Mk3 (now Mk5)  | NC85482         | 6150-99-5637755 | L | 0  |
| 33 | HUMS Mk3 (now Mk5)  | NC85483         | 6150-99-8448338 | L | 0  |
| 34 | HUMS Mk3 (now Mk5)  | NC85484         | 6150-99-5110173 | L | 0  |
| 35 | HUMS Mk3 (now Mk5)  | NC85485         | 6150-99-5775261 | L | 0  |
| 36 | HUMS Mk3 (now Mk5)  | NC85486         | 6150-99-6158739 | L | 0  |
| 37 | HUMS Mk3 (now Mk5)  | NC85487         | 6150-99-7316939 | L | 0  |
| 38 | HUMS Mk3 (now Mk5)  | NC85616         | 5999-99-2483627 | L | 0  |
| 39 | HUMS Mk3 (now Mk5)  | NC85621         | 6150-99-5637757 | L | 0  |
|    |                     |                 |                 |   |    |
| 44 | Mk4 Flir (now Mk6A) | NC86111         | 6150-99-6708535 | L | 0  |
| 45 | Mk4 Flir (now Mk6A) | NC86114         | 6150-99-4024158 | L | 0  |
| 46 | Mk4 Flir (now Mk6A) | NC86110         | 6150-99-2978861 | L | 1  |
| 47 | Mk4 Flir (now Mk6A) | NC86112         | 6150-99-2723110 | L | 1  |
| 48 | Mk4 Flir (now Mk6A) | NC86113         | 6150-99-1527304 | L | 3  |
|    |                     |                 |                 |   |    |
| 54 | Mini Gun DC         | NC86248         | 6150-99-7075422 | L | 19 |
| 55 | Mini Gun DC         | NC85979         | 1005-99-9769278 | P | 0  |
|    |                     |                 |                 |   |    |
| 57 | I R Jammers         | NC84480         | 6150-99-9250636 | L | 0  |
| 58 | I R Jammers         | NC84481         | 6150-99-1795323 | L | 1  |
| 59 | I-Hop               | NC86314         | 6150-99-4266612 | L | 0  |
| 60 | I-Hop               | NC86315         | 6150-99-6766736 | L | 0  |
|    |                     |                 |                 |   |    |
| 62 | Mk3 Flir (now Mk5)  | NC86103         | 6150-99-7318748 | P | 0  |
| 63 | Mk3 Flir (now Mk5)  | NC86104         | 6150-99-3736706 | L | 0  |
| 64 | Mk3 Flir (now Mk5)  | NC86105         | 6150-99-3594962 | P | 0  |
| 65 | Mk3 Flir (now Mk5)  | NC86106         | 6150-99-8155796 | P | 0  |
| 66 | Mk3 Flir (now Mk5)  | NC86107         | 6150-99-5775263 | L | 0  |
| 67 | Mk3 Flir (now Mk5)  | NC86108         | 6150-99-3481168 | L | 0  |
| 68 | Cover, Protective   | NC82230-09-03-S | 1680-01-7375945 | C | 0  |



|     |                          |                |                 |   |   |
|-----|--------------------------|----------------|-----------------|---|---|
| 69  | Backshell EMI            | NC85607        | 5935-99-8369244 | C | 0   |
| 70  | Backshell EMI            | NC85608        | 5935-99-2295081 | C | 0   |
| 71  | EAPS Umbilical Test Lead | NC85116        | 5935-99-2429292 | L | Qty unknown   |
| 72  | Mega Interrupter Cable   | NC84357        | 4920-99-1685132 | P | Qty 213 awaiting repair; approx. 100 per year on current usage levels |
| 73  | ALE-47 Lot 1/2           | NC9930-014-045 |                 |   | Initial buy of 3  |
| 74  | ALE-47 Lot 1-3           | NC9930-015-043 |                 |   | Initial buy of 4  |
| 75  | ALE-47 Lot 1-3           | NC9930-016-043 |                 |   | Initial buy of 4  |
| 76  | ALE-47 Lot 1-3           | NC9930-017-043 |                 |   | Initial buy of 4  |
| 77  | ALE-47 Lot 1-3           | NC9930-018-045 |                 |   | Initial buy of 4  |
| 78  | ALE-47 Lot 1-3           | NC9930-019-045 |                 |   | Initial buy of 4  |
| 79  | ALE-47 Lot 1/2           | NC9930-028-045 |                 |   | Initial buy of 3  |
| 80  | ALE-47 Lot 1/2           | NC9930-029-047 |                 |   | Initial buy of 3  |
| 81  | ALE-47 Lot 3             | NC9930-070-045 |                 |   | Initial buy of 1  |
| 82  | ALE-47 Lot 3             | NC9930-071-045 |                 |   | Initial buy of 1  |
| 83  | ALE-47 Lot 3             | NC9930-074-045 |                 |   | Initial buy of 1  |
| 84  | ALE-47 Lot 3             | NC9930-075-045 |                 |   | Initial buy of 1  |
| 85  | ALE-47 Lot 1/2           | NC9930-412-041 |                 |   | Initial buy of 3  |
| 86  | ALE-47 Lot 1/2           | NC9930-413-041 |                 |   | Initial buy of 3  |
| 87  | ALE-47 Lot 3             | NC9930-460-041 |                 |   | Initial buy of 1  |
| 88  | AAR-57 Lot 1-3           | NC9930-004-047 |                 |   | Initial buy of 4  |
| 89  | AAR-57 Lot 1-3           | NC9930-005-045 |                 |   | Initial buy of 4  |
| 90  | ALE-47 Lot 4             | NC9930-036-043 |                 |   | Initial buy of 2  |
| 91  | ALE-47 Lot 4             | NC9930-037-045 |                 |   | Initial buy of 2  |
| 92  | ALE-47 Lot 4             | NC9930-038-043 |                 |   | Initial buy of 2  |
| 93  | ALE-47 Lot 4             | NC9930-042-045 |                 |   | Initial buy of 2  |
| 94  | ALE-47 Lot 4             | NC9930-043-045 |                 |   | Initial buy of 2  |
| 95  | ALE-47 Lot 4             | NC9930-049-045 |                 |   | Initial buy of 2  |
| 96  | ALE-47 Lot 4             | NC9930-050-043 |                 |   | Initial buy of 2  |
| 97  | ALE-47 Lot 4             | NC9930-051-043 |                 |   | Initial buy of 2  |
| 98  | ALE-47 Lot 4             | NC9930-053-045 |                 |   | Initial buy of 2  |
| 99  | ALE-47 Lot 4             | NC9930-059-043 |                 |   | Initial buy of 2  |
| 100 | ALE-47 Lot 4             | NC9410-508-042 |                 |   | Initial buy of 2  |
| 101 | ALE-47 Lot 4             | NC9930-527-042 |                 |   | Initial buy of 2  |
| 102 | ALE-47 Lot 4             | NC9930-540-041 |                 |   | Initial buy of 2  |
| 103 | ALE-47 Lot 4             | NC9930-541-041 |                 |   | Initial buy of 2  |
| 104 | ALE-47 Lot 4             | NC9930-557-041 |                 |   | Initial buy of 2  |
| 105 | AAR-57 Lot 4             | NC9930-054-043 |                 |   | Initial buy of 8  |
| 106 | AAR-57 Lot 4             | NC9930-055-043 |                 |   | Initial buy of 8  |

Table 2 – Items listed on CHC/543 that are no longer required and will be removed from support

| Item No. | Item Nomenclature | Part Number | Nato Stock Number        |
|----------|-------------------|-------------|--------------------------|
| 1        | Rad Alt Kits      | NC86313     | 4920-99-3913557          |
| 2        | Rad Alt Kits      | NC85125     | 5995-99-6671748          |
| 3        | FMV               | NC85126     | 5995-99-7734749          |
| 4        | FMV               | NC85974     | <i>Part Not Codified</i> |
| 5        | FMV               | NC86118     | 6150-99-7267485          |
| 6        | FMV               | NC86272     | <i>Part Not Codified</i> |

**PREFACE**



This Statement of Requirement (SOR) has been prepared by the Chinook Project Team (CHPT) on behalf of the Secretary of State for Defence; henceforth referred to as the Authority. The purpose of the document is to define the contractual requirements for Chinook unique aircraft cabling and associated spares.

The following security caveats are applicable

Existence of the programme

OFFICIAL

Contents of this SOR

OFFICIAL SENSITIVE

*unless otherwise stated*

Compiled by: [REDACTED].....

Approved by: .....

Released by: .....