

The Contract made between the Commonwealth of Australia represented by the Department of Defence A.B.N. 68 706 814 312 (the 'Commonwealth') and Australian Defence Apparel Pty Ltd, A.B.N. 67 006 898 906 and having its registered office at 14 Gaffney Street, Coburg, VIC 3058 (the 'Contractor').

RECITALS

- A. The Commonwealth has a requirement for the supply of Disruptive Pattern Camouflage Uniforms (DPCU) and Disruptive Pattern Desert Uniforms (DPDU) to the ADF.
- B. The Contractor has offered to provide the Supplies on the terms set out in the Contract.
- C. The Commonwealth has agreed to accept the offer by the Contractor on the terms set out in the Contract.

THE PARTIES AGREE AS FOLLOWS**FOR DEPARTMENTAL USE: For Systems Entries**

Contract No:		Project ID:	
ROMAN ORDER No:		Cost Centre Code:	
Order Date:		WBS Element Code:	
Contractor A.B.N:		Cost Element:	
Vendor No:		Internal Order:	

CONDITIONS OF CONTRACT

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1. CONTRACT FRAMEWORK

1.1 Definitions

- 1.1.1 In the Contract, unless the contrary intention appears, words, abbreviations and acronyms have the meanings given to them by the Glossary at Attachment H. The Glossary also contains a list of documents referred to in the Contract and details of the version that is applicable to the Contract.

1.2 Interpretation

- 1.2.1 In the Contract, unless the contrary intention appears:
- a. headings are for the purpose of convenient reference only and do not form part of the Contract;
 - b. the singular includes the plural and vice-versa;
 - c. a reference to one gender includes the other;
 - d. a reference to a person includes a body politic, body corporate or a partnership;
 - e. if the last day of any period prescribed for the doing of an action falls on a day which is not a Working Day, the action shall be done no later than the end of the next Working Day;
 - f. a reference to an Act is a reference to an Act of the Commonwealth, State or Territory of Australia, as amended from time to time, and includes a reference to any subordinate legislation made under the Act;
 - g. a reference to a clause includes a reference to a subclause of that clause;
 - h. a reference to a 'dollar', '\$', '\$A' or 'AUD' means the Australian dollar unless otherwise stated;
 - i. a reference to a specification, publication, Commonwealth policy or other document is a reference to that specification, publication, Commonwealth policy or document, in effect on the Effective Date, or alternatively, a reference to another version of the document if agreed in writing between the parties;
 - j. the word 'includes' in any form is not a word of limitation; and
 - k. a reference to a party includes that party's administrators, successors, and permitted assigns, including any person to whom that party novates any part of the Contract
- 1.2.2 The objectives of the parties in entering into this Contract are:
- a. to ensure that the Contractor delivers the Supplies on time, on budget, to the required safety, quality and capability, in accordance with the Contract;
 - b. to provide an effective capability to the ADF that:
 - (i) supports the ADF's mission to 'fight and win';
 - (ii) supports the Commonwealth's policy of Defence self-reliance; and
 - (iii) minimises the Commonwealth's costs of maintaining and supporting the Disruptive Pattern Uniforms;
 - c. to develop, maintain and enhance appropriate skill sets and capabilities within both the Commonwealth and the Contractor;
 - d. to obtain value for money for the Commonwealth on an ongoing basis in relation to the delivery of Disruptive Pattern Uniforms;
 - e. to obtain for the Contractor as a commercial entity a reasonable return on its investment when it performs the Contract efficiently and successfully, and a return that appropriately reflects properly managed risks involved in the performance of the Contract;
 - f. to have appropriate IP for acquisition, whole of life support and disposal;
 - g. to facilitate the retention and enhancement of strategically important Australian capabilities and skills;

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- h. to ensure availability of necessary facilities (including any plant and systems) to develop and maintain (as appropriate) the Disruptive Pattern Uniforms;
 - i. to encourage the most efficient possible use of resources for the achievement of the requirement;
 - j. to work within a framework that ensures personnel and materiel safety, and assures compliance with all laws and other regulatory requirements; and
 - k. to achieve these joint objectives through a culture of mutual respect and co-operation, and in an environment that fosters innovation, continuous improvement, cost efficiency, transparency and open, honest and timely communication.
- 1.2.3 Without in any way affecting or overriding the other terms of this Contract, each party agrees to perform its obligations and enforce its rights under the Contract having regard to, and with the aim of, satisfying the objectives described in clause 1.2.2.
- 1.3 Commencement of Operation**
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- 1.3.1 The Contract commences on the Effective Date.
- 1.4 Entire Agreement**
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- 1.4.1 The Contract represents the parties' entire agreement in relation to the subject matter and supersedes all tendered offers and prior representations, communications, agreements, statements and understandings, whether oral or in writing.
- 1.5 Precedence of Documents**
-
- 1.5.1 If there is any inconsistency between the terms of the Contract, a descending order of precedence shall be accorded to:
- a. the conditions of contract and the Glossary;
 - b. the SOW and its annexes;
 - c. the Attachments other than the SOW and the Glossary; and
 - d. any document incorporated by express reference as part of the Contract,
- so that the term in the higher ranked document, to the extent of the inconsistency, shall prevail.
- 1.6 Contracted Requirement**
-
- 1.6.1 The Contractor shall, for the Contract Price, and any other payment required under the Contract, provide the Supplies and fulfil all its other obligations under the Contract.
- 1.7 Option for Further Quantities and Optional Extras**
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- 1.7.1 The Contractor grants the Commonwealth the option to purchase additional quantities of the Supplies and optional extras as set out in Attachment C, at any time prior to 1 year from the Effective Date. If these additional quantities are purchased, the purchase must be under the terms of the Contract, including those detailed in Attachment C.
- 1.7.2 The Commonwealth may exercise the option by providing written notice to the Contractor identifying the optional extras or quantity and type of additional quantities of the Supplies (as appropriate) to be purchased. The Contractor shall, within 30 days of receipt of the notice, submit a change proposal to the Contract in accordance with clause 9.1.

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2. ROLES AND RESPONSIBILITIES**2.1 Commonwealth Representative**

- 2.1.1 The Commonwealth Representative is responsible for administering the Contract on behalf of the Commonwealth.
- 2.1.2 The Contractor shall comply with the reasonable directions of the Commonwealth Representative made within the scope of the administration of the Contract.
- 2.1.3 If given orally, a direction shall be confirmed in writing within 14 days. The Commonwealth Representative shall have no authority to waive any term of, or release the Contractor from, its obligations under the Contract except in accordance with clause 9.1 or clause 6.2 of the SOW.
- 2.1.4 Unless authorised by the Contract or a direction given under clause 2.1.2, any work performed or cost incurred by the Contractor in response to a communication from the Commonwealth Representative is at the Contractor's sole risk.

2.2 Contractor Representative

- 2.2.1 The Contractor shall on or before the Effective Date nominate in writing the person with the authority to represent the Contractor for the purposes of the Contract. Any communication passed by the Commonwealth to this person shall be deemed to have been delivered to the Contractor.

2.3 Notices

- 2.3.1 Unless the contrary intention appears, any notice or communication under the Contract shall be effective if it is in writing, signed and delivered to the Commonwealth Representative or Contractor's representative referred to in clause 2.2, as the case may be, at the following address:

Commonwealth Representative

National Fleet Manager
 Combat Clothing
 Clothing Systems Program Office
 Victoria Barracks Melbourne (VBM-H4E)
 256-310 St Kilda Road
 Southbank VIC 3006

Facsimile: (03) 9282 5983

Contractor Representative

Business Development Manager
 Australian Defence Apparel Pty Ltd
 14 Gaffney Street
 COBURG VIC 3058

Facsimile: (03) 9354 8425

- 2.3.2 A notice or communication shall be deemed to have been delivered:
- by prepaid post, in three Working Days if sent within Australia and in eight Working Days if sent by air mail from one country to another, or
 - by facsimile, at the time recorded by the transmitting machine, unless within one Working Day the sender is informed that the transmission was received in incomplete or garbled form, in which case a re-transmitted notice or other communication shall be received when it is effectively delivered in accordance with clause 2.3.

3. PRODUCTION OF THE SUPPLIES

3.1 Language and Measurement

- 3.1.1 All information delivered as part of the Supplies under the Contract shall be written in English. Measurements of physical quantity shall be in Australian legal units as prescribed under the *National Measurement Act 1960*, or, if Supplies are imported, units of measurement as agreed by the Commonwealth Representative.

3.2 Export Approvals and Imported Supplies

- 3.2.1 The Contractor shall obtain all necessary valid export licences or other approvals to meet the requirements of the Contract. The Contractor shall provide, on request by the Commonwealth Representative, a copy of any licence or other approval, or proof that such licence or approval has been obtained.
- 3.2.2 The Contractor shall notify the Commonwealth Representative in writing within 10 days of becoming aware of the refusal, revocation, or any qualification of an export licence or other approval.
- 3.2.3 The Contractor shall provide the Commonwealth Representative with notice in writing, including supporting evidence, of any variation to the rate of customs duty applicable to the Supplies between the Base Date and the date of entry of the item; and
- a. in the case of an increase, the Contractor may claim reimbursement in the amount of such increase; or
 - b. in the case of a decrease, the Commonwealth may recover such money as a debt due recoverable under clause 11.4.

3.3 Contractor Managed Commonwealth Assets

- 3.3.1 The Contractor shall take all reasonable care of CMCA and shall provide facilities to store and handle all CMCA as they are received.
- 3.3.2 The Contractor shall, within seven days of becoming aware that any CMCA are lost, destroyed, damaged, defective or deficient, notify the Commonwealth Representative of the event in writing.
- 3.3.3 The Contractor shall be liable for loss or destruction of, damage to or defects or deficiencies in, the CMCA, except to the extent that the loss, destruction, damage, defects or deficiencies result from any unlawful or negligent act or omission on the part of the Commonwealth, its officers, employees or agents. Subject to clause 3.3.4, or an agreement by the parties to replace the CMCA, the Contractor shall compensate the Commonwealth for the loss or destruction of, damage to or defects or deficiencies in, the CMCA and the Commonwealth may recover an amount equivalent to the value of the compensation under clause 11.4 as a debt due to the Commonwealth.
- 3.3.4 If in the opinion of the Commonwealth Representative the Contractor has the necessary capacity, the Commonwealth Representative may require the Contractor by notice in writing to transport, dispose of or repair damaged, defective or deficient CMCA. To the extent the Contractor is liable under clause 3.3.3 for the damage, defect or deficiency, the work performed by the Contractor under clause 3.3.4 shall, to the extent of the value of the work, discharge the Contractor's liability. To the extent the Contractor is not liable under clause 3.3.3 for the damage, defect or deficiency, the Contractor shall, if the parties agree in advance to the cost of the work, perform the work for no more than the agreed cost.

4. INTELLECTUAL PROPERTY**4.1 Ownership of Intellectual Property**

- 4.1.1 Nothing in the Contract affects the ownership of Background IP or Third Party IP.
- 4.1.2 Ownership of all Foreground IP vests on its creation in the Contractor.

4.2 Intellectual Property Licence

- 4.2.1 The Contractor grants to the Commonwealth a royalty-free, irrevocable, world-wide, perpetual, non-exclusive licence in respect of all Background IP and Foreground IP that is owned by the Contractor, including the right to sub-licence:
- a. to use, maintain and dispose of the Supplies;
 - b. to complete the Supplies upon termination of the Contract; and
 - c. to remedy defects or omissions in the Supplies.
- 4.2.2 The Contractor shall ensure that the Commonwealth is granted a licence to exercise all Third Party IP on the best available commercial terms.
- 4.2.3 The Contractor shall, no later than the submission of the final claim for payment under clause 6.2, provide a list of all Background IP, Foreground IP and Third Party IP to the Commonwealth in the format set out at Attachment D. The Commonwealth reserves the right to withhold payment of the final claim for payment under clause 6.2 until the Contractor complies with its obligations under this clause 4.

4.3 Provision of Technical Data

- 4.3.1 The Contractor shall provide with the Supplies all TD necessary for the Commonwealth to exercise its IP rights as defined in clause 4.1 or 4.2, including to use, maintain and dispose of, the Supplies.
- 4.3.2 The Contractor shall ensure that all TD delivered to the Commonwealth will enable a reasonably skilled person to efficiently and effectively do the things permitted to be done by the Commonwealth in the exercise of its IP rights under clause 4.1 or 4.2.

4.4 Release to Third Parties

- 4.4.1 If the Commonwealth makes available to another person any IP rights that are owned by the Contractor and which is Foreground IP or Background IP, the Commonwealth shall obtain from that person a deed of confidentiality.

4.5 Moral Rights

- 4.5.1 The Contractor represents and warrants that the use of the Supplies for Defence Purposes or other purposes permitted by the Contract will not infringe the Moral Rights of the officers, employees or agents of the Contractor or its Subcontractors.
- 4.5.2 The Contractor shall ensure that none of its:
- a. officers, employees or agents;
 - b. Subcontractors; or
 - c. Subcontractors' officers, employees or agents;
- institute, maintain or support any claim or proceeding against the Commonwealth or its officers, employees or agents for infringement of any of their Moral Rights.

5. DELIVERY, ACCEPTANCE AND OWNERSHIP**5.1 Delivery**

- 5.1.1 The Contractor shall deliver the Supplies in accordance with the Contract, including the Price and Delivery Schedule at Attachment B.

5.2 Acceptance

- 5.2.1 All Supplies delivered by the Contractor shall be subject to Acceptance by the Commonwealth in accordance with this clause 5.2.

- 5.2.2 The Contractor shall, when seeking Acceptance, complete and present a signed Certificate of Conformity in accordance with clause 6.4 of the Statement of Work and provide any other supporting evidence required by the Commonwealth Representative.

- 5.2.3 The Commonwealth Representative or their nominated representative shall within 21 days of the offer of Supplies for Acceptance:

- a. Accept the Supplies by signing the Certificate of Conformity; or
- b. reject the Supplies, in which case the Commonwealth Representative shall notify the Contractor in writing of the reasons for the failure and the extent of the non-conformance.

- 5.2.4 The Contractor acknowledges and agrees that:

- a. the specification of the requirements for the Supplies in the Contract is the result of resource-intensive Commonwealth definition, approval and procurement processes;
- b. the Commonwealth has relied on the Contractor's representations about time (including as reflected in the Contract);
- c. the Commonwealth has determined that the Contract is value for money on the basis that full Acceptance of all Supplies is achieved with no delay; and
- d. it is reasonable that the Commonwealth at all times during the period of the Contract has current knowledge of:
 - (i) progress under the Contract;
 - (ii) risks to achievement of Acceptance or other Milestones including potential minor omissions and defects;
 - (iii) any other potential or actual non-compliance with the Contract;
 - (iv) risk management by the Contractor including of emerging risks; and
 - (v) any potential delay in meeting any timing obligation in the Contract, for any reason, and whether or not the delay risk was foreseeable or has been previously identified.

- 5.2.5 The Contractor shall:

- a. proactively ensure that the Commonwealth is kept informed of matters relevant to the issues in clause 5.2.4, using the communication channels and reporting processes in the Contract; and
- b. comply with any directions by the Commonwealth or the exercise of any other Commonwealth powers under or in relation to the Contract in dealing with such matters.

- 5.2.6 If the Commonwealth agrees that Acceptance may be achieved despite any minor omissions or defects or other non-compliance, the Commonwealth may, after consultation with the Contractor:

- a. determine a revised Contract Price reflecting the reduction in value for money of the non-complying Supplies ('Reduction Amount');
- b. direct the Contractor to provide a SG2 Request for Deviation that is consistent with this clause; and
- c. exercise its rights under clause 11.4 in respect of the Reduction Amount.

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- 5.2.7 The Commonwealth Representative may require the Contractor to retake possession of any item of Supplies within seven days when a notice of failure to achieve Acceptance is issued. Repossession of Supplies shall not affect the obligation of the Contractor to provide conforming Supplies.
- 5.2.8 The Contractor shall bear all costs associated with replacing or correcting rejected Supplies and of complying with the directions of the Commonwealth Representative.
- 5.2.9 Any action of the Contractor in correcting or replacing the Supplies and in complying with the directions of the Commonwealth Representative under clause 5.2 shall not entitle the Contractor to claim postponement of the date of delivery of the Supplies, or relieve the Contractor from performing its obligations under the Contract.

5.3 Ownership and Risk

- 5.3.1 Subject to clause 4, ownership of Supplies shall pass to the Commonwealth upon payment of a claim relating to those Supplies in accordance with clause 6.2.
- 5.3.2 At the time ownership of any item of Supplies passes to the Commonwealth, those Supplies shall be free of any registered or unregistered charge, lien, mortgage or other encumbrance.
- 5.3.3 Risk of loss of or damage to the Supplies resides with the Contractor until the Supplies have been delivered to the Commonwealth in accordance with Attachment B.
- 5.3.4 If the Commonwealth Representative rejects Supplies as not conforming to the requirements of the Contract, or if the Contractor retakes possession of the Supplies in accordance with the Contract, risk of loss of, or damage to, those Supplies shall revert to the Contractor on repossession or seven days after issue of a notice under clause 5.2.7, whichever is the earlier.

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6. PRICE AND PAYMENT**6.1 Price and Price Basis**

- 6.1.1 The Contract Price is set out in Attachment B and, subject to clauses 6.8 and 9.1, is unalterable.

6.2 Payment

- 6.2.1 The Contractor shall submit a claim for payment in accordance with clause 6.3.
- 6.2.2 On receipt of a claim for payment the Commonwealth Representative shall either:
- a. approve the claim if it is submitted in accordance with clause 6.2.1 and the Commonwealth has Accepted the Supplies under clause 5.2.3; or
 - b. reject the claim if the claim is not submitted in accordance with clause 6.2.1 or the Commonwealth has rejected the Supplies under clause 5.2.3.
- 6.2.3 When a claim is approved under clause 6.2.2, the Commonwealth shall make payment within 30 days of receipt of the claim.
- 6.2.4 If the Commonwealth Representative rejects the claim, the Commonwealth Representative shall, within 21 days of receipt of the claim, notify the Contractor in writing of the need to resubmit the claim and the reasons for rejection and any action to be taken by the Contractor for the claim to be rendered correct for payment.
- 6.2.5 Upon receipt of a notice issued pursuant to clause 6.2.4, the Contractor shall, immediately, take all necessary steps to make the claim for payment conform to the requirements of the Contract and shall submit a revised claim to the Commonwealth Representative when such action is complete. The resubmitted claim shall be subject to the same conditions as if it were the original claim.

6.3 Claims for Payment

- 6.3.1 The Contractor shall be entitled to submit claims for payment in accordance with Attachment B.
- 6.3.2 All claims for payment submitted by the Contractor shall:
- a. be correctly addressed and calculated in accordance with the Contract;
 - b. be accompanied by the Certificate of Conformity signed by the Contractor that relate to the Supplies listed in the claim for payment;
 - c. be in the form of a valid tax invoice in accordance with clause 6.6;
 - d. contain the following information:
 - (i) the title of the Supplies and the name of the Contractor's representative;
 - (ii) the name and phone number of the Commonwealth Representative;
 - (iii) the Contract number; and
 - (iv) the amount of the claim, and
 - e. be accompanied by any documentation requested by the Commonwealth Representative for the purposes of clause 5.2 or in order to establish that the claim is in accordance with the Contract
- 6.3.3 All claims for payment are to be submitted to the Commonwealth Representative in accordance with clause 2.3.1.

6.4 Not Used

6.5 Time of Payment

- 6.5.1 The Commonwealth shall notify the Contractor of the date a payment in accordance with this clause 6 is made.

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6.6 Taxes and Duties

- 6.6.1 All taxes, duties and government charges imposed or levied in Australia or overseas in connection with the Contract shall be met by the Contractor and shall be included within the Contract Price.
- 6.6.2 The Contract Price set out in Attachment 8 includes GST for Supplies to be delivered under the Contract which are taxable supplies within the meaning of the GST Act.
- 6.6.3 The Contractor shall submit each claim for payment under clause 6 in the form of a valid tax invoice. The tax invoice shall include the amount and method of calculation of any GST payable by the Contractor in relation to that claim for payment as a separate item.
- 6.6.4 If the Contractor incorrectly states the amount of GST payable, or paid, by the Commonwealth on an otherwise valid tax invoice, the Contractor shall issue to the Commonwealth a valid adjustment note in accordance with the GST Act.
- 6.6.5 If the Commonwealth makes, or is assessed by the ATO as having made, a taxable supply to the Contractor under or in connection with the Contract, the Commonwealth shall be entitled to recover from the Contractor upon presentation of a valid tax invoice, the amount of GST paid or payable by the Commonwealth to the ATO.
- 6.6.6 Any amount of GST to be paid by the Contractor under clause 6.6.5 shall be a debt recoverable by the Commonwealth in accordance with clause 11.4.

6.7 Not Used**6.8 Adjustment for Fabric Purchased From COMMERCIAL-IN-CONFIDENCE**

- 6.8.1 The Contract Price will be subject to variation in the cost of fabric authorised by the Commonwealth in accordance with the terms and conditions of Standing Offer 0310-272-26.
- 6.8.2 If the variation is to COMMERCIAL-IN-CONFIDENCE the Contractor shall calculate and submit a separate claim for payment no later than 3 months after the variation is authorised.
- 6.8.3 If the variation is to the credit of the Commonwealth, the Contractor shall calculate and notify the Commonwealth Representative in writing of the credit no later than 3 months after the variation is authorised.
- 6.8.4 The Commonwealth shall not be liable for any adjustment claims under clause 6.8 outside of the period mentioned in clause 6.8.2.
- 6.8.5 On receipt of a claim for payment under clause 6.8, the Commonwealth Representative shall:
- approve the claim if it is submitted in accordance with clause 6.8 and make payment within 30 days of receipt of the claim; or
 - reject the claim and notify the Contractor in writing, within 14 days receipt of the claim, of the reasons for rejection.
- 6.8.6 If a claim is rejected under clause 6.8.5, the Contractor may resubmit the claim no later than 30 days after notice of the rejection. The Commonwealth shall deal with the resubmitted claim as if it were the original claim. If the Contractor fails to resubmit the claim within 30 days, or the Commonwealth rejects the resubmitted claim, the Commonwealth shall not be liable for any adjustment claims in relation to the relevant period.
- 6.8.7 If an amount calculated in accordance with this clause 6.8 is to the credit of the Commonwealth, the amount is a debt to the Commonwealth for the purposes of clause 11.4.

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7. INSURANCE AND LIABILITY

7.1 Indemnity

- 7.1.1 The Contractor shall indemnify the Commonwealth, its officers, employees and agents against any liability, loss, damage, costs (including the cost of any settlement and legal costs and expenses on a solicitor and own client basis), and expenses arising out of or as a consequence of a default or unlawful or negligent act or omission on the part of the Contractor, its officers, employees, agents or Subcontractors. The Contractor's liability to indemnify the Commonwealth shall be reduced proportionally to the extent that any unlawful or negligent act or omission on the part of the Commonwealth or any person through whom the Commonwealth is acting (but not including the Contractor, its officers, employees, agents or Subcontractors) contributed to the liability, loss, damage, costs or expense.

COMMERCIAL-IN-CONFIDENCE

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8. WARRANTIES**8.1 Fitness for Purpose**

- 8.1.1 The Contractor shall ensure and warrants that any Supplies provided under the Contract shall be fit for the purpose or purposes for which Supplies of that kind would be reasonably expected to be applied by the Commonwealth.

8.2 Warranty

- 8.2.1 The Contractor warrants that the design, materials and workmanship in the Supplies conform with, and that the Supplies meet, the requirements of the Contract. The Contractor shall remedy by repair, replacement or modification, defects in design, materials and workmanship in the Supplies if the defect is notified to the Contractor by the Commonwealth Representative during the period of five years starting from Acceptance of the Supplies (for the purposes of clause 8.2 called the Warranty period).
- 8.2.2 The Contractor shall remedy by repair, replacement or modification any other Supplies which are affected by the corrective actions taken by the Contractor to address a warranty claim notified to the Contractor under clause 8.2.
- 8.2.3 The liability of the Contractor to remedy defects under the warranty provided by the Contractor under clause 8.2.1 shall not apply to the extent that the defect arises from the Commonwealth's negligent or wilful damage of the Supplies.
- 8.2.4 The Contractor, unless the Commonwealth Representative otherwise allows, shall meet all costs of, and incidental to, the performance of remedial work under clause 8.2, including any packing, freight (not exceeding the freight cost between the Contract delivery point and the Contractor's nominated repair facility and return), disassembly and re-assembly costs.
- 8.2.5 If the Contractor fails, within the period of 60 days after notification by the Commonwealth Representative, to rectify a defect pursuant to clause 8.2, the Commonwealth may, without limiting the Contractor's warranties and obligations under this clause 8, perform or have performed the necessary remedial work at the expense of the Contractor, and may recover such expense as a debt in accordance with clause 11.4.
- 8.2.6 The rights and remedies provided in clause 8.2 are in addition to, and shall not limit, any other rights of the Commonwealth under the Contract or otherwise.

8.3 Notification of Defects

- 8.3.1 If during the period of three years commencing on the Effective Date, the Contractor becomes aware of any defect (including Latent Defects) in the Supplies which adversely affects, or is likely to adversely affect, the operation of the Supplies or the safety of personnel, the Contractor shall immediately give notice of the defect to the Commonwealth Representative. The Contractor shall within 28 days of the initial notice provide a written statement of the nature of the defect, its cause and effect, and proposed remedial action.

8.4 Latent Defects

- 8.4.1 The Contractor shall, within the Contract Price, diagnose and correct any Latent Defects in Supplies if those Latent Defects are notified to it in writing by the Commonwealth Representative within the period of three years commencing on Acceptance.
- 8.4.2 The Contractor shall, at its own expense:
- when the Latent Defect is the result of a design deficiency, redesign the Supplies (including provision of effective test procedures to demonstrate the rectification of the deficiency);
 - correct the Supplies notified by the Commonwealth Representative under clause 8.4.1 and all similar items of Supplies by repair, modification or replacement of the Supplies or by any other means acceptable to the Commonwealth Representative; and
 - make any necessary correction, modification or replacement of any other Supplies which are affected by the Latent Defect,
- whether or not those Supplies have already been Accepted or delivered.

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- 8.4.3 If the Contractor fails to rectify a Latent Defect in the Supplies within the time specified by the Commonwealth Representative in the notice referred to in clause 8.4.1, the Commonwealth may, without limiting the Contractor's warranties and obligations under the Contract, perform or have performed at the expense of the Contractor any rectification work, and may recover such expense as a debt to the Commonwealth under clause 11.4.

9. CONTRACT MANAGEMENT

9.1 Change to the Contract

- 9.1.1 Either party may propose a change to the Contract. The Contract may only be changed in writing and signed by both parties. A change to the Contract shall take effect on the date on which the change is signed by the parties, or if signed on separate days, the date of the last signature.
- 9.1.2 The Commonwealth Representative may issue an amendment to the Contract to incorporate any changes that have taken effect under clause 9.1.1. The amendment does not affect the legal status of the Contract change as determined under clause 9.1.1.
- 9.1.3 The parties shall not be liable to each other for any additional work undertaken or expenditure incurred unless the variation is in accordance with clause 9.1.

9.2 Waiver

- 9.2.1 Failure by either party to enforce a term of the Contract shall not be construed as in any way affecting the enforceability of that term of the Contract as a whole.

9.3 Commercial-in-Confidence Information

- 9.3.1 If in connection with the Contract, Commercial-in-Confidence Information is provided or produced by any person, the relevant party shall ensure that any person receiving or producing the information protects the confidential nature of the information except:
- a. when disclosure of the information is required by law or statutory or portfolio duties, or
 - b. to the extent that the Commonwealth would be prevented from exercising its IP rights under the Contract.
- 9.3.2 If it is necessary to disclose Commercial-in-Confidence Information, provided or produced by or on behalf of the other party, to a third party, other than a legal adviser or for a purpose within an exception listed in clause 9.3.1, the party wishing to make the disclosure shall obtain the written consent of the other party to the Contract.
- 9.3.3 The Commonwealth may require the Contractor to ensure that its officers, employees, agents, and Subcontractors engaged in the performance of the Contract give a written undertaking prior to the disclosure of Commercial-in-Confidence Information.
- 9.3.4 The Contractor shall not, in marking information supplied to the Commonwealth, misuse the term 'Commercial-In-Confidence' or the Contractor's equivalent. The marking of information as 'Commercial-in-Confidence' shall not affect the legal nature and character of the information.
- 9.3.5 The parties agree that the conditions of contract and Attachments, or the parts of them, listed in Attachment G are Commercial-in-Confidence Information for the relevant party as at the Effective Date.
- 9.3.6 The Contractor agrees to deliver to the Commonwealth, as required by the Commonwealth, all documents in its possession, power or control which contain or relate to any information that is Commercial-in-Confidence Information of the Commonwealth on the earlier of:
- a. demand by the Commonwealth; and
 - b. the time the documents and other material are no longer required for the purposes of the Contract.
- 9.3.7 If the Commonwealth makes a demand under clause 9.3.6, and the Contractor has placed or is aware that documents containing the Commercial-in-Confidence Information are beyond its possession or control, then the Contractor shall provide full particulars of the whereabouts of the documents containing the Commercial-in-Confidence Information, and the identity of the person in whose custody or control they lie.
- 9.3.8 The Contractor, when directed by the Commonwealth in writing, agrees to destroy any document in its possession, power or control which contain or relate to any Commercial-in-Confidence Information.

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- 9.3.9 Return or destruction of the documents referred to in this clause 9.3 does not release the Contractor from its obligations under the Contract.

9.4 Assignment and Novation

- 9.4.1 Neither party may, without the written consent of the other, assign its rights under the Contract.
- 9.4.2 If the Contractor proposes to enter into any arrangement which will require the novation of the Contract, it shall notify and seek the consent of the Commonwealth Representative within a reasonable period prior to the proposed novation.

9.5 Negation of Employment and Agency

- 9.5.1 The Contractor shall not represent itself, and shall ensure that its officers, employees, agents and Subcontractors do not represent themselves, as being employees, partners or agents of the Commonwealth.
- 9.5.2 The Contractor, its officers, employees, agents and Subcontractors shall not by virtue of the Contract be, or for any purpose be deemed to be, an employee, partner or agent of the Commonwealth.

9.6 Commonwealth Access

- 9.6.1 During the performance of the Contract, the Contractor shall permit the Commonwealth Representative or any person authorised by the Commonwealth Representative access to its premises, and access to any of its records or accounts relevant to or impacting on the performance of work under the Contract. The Commonwealth may copy any records or accounts for the purposes of the Contract.
- 9.6.2 Without limiting the generality of clause 9.6.1, the purposes for which the Commonwealth Representative may require access include:
- a. inspecting CMCA, attending, checking or conducting stocktakes of CMCA, including viewing and assessing the Contractor's inventory control and stocktaking systems and any data stored or recorded in the Contractor's inventory control and stocktaking systems, or removing CMCA that are no longer required for the performance of the Contract;
 - b. conducting audits under the *Auditor-General Act 1997*;
 - c. performing Audit and Surveillance activities in relation to Quality in accordance with clause 6 of the SOW;
 - d. investigating the reasonableness of any proposed prices or costs in any proposal to change the Contract in accordance with clause 9.1;
 - e. determining whether, and to what extent steps should be taken to register or otherwise protect Commonwealth IP; and
 - f. investigating the reasonableness of any cost claims made by the Contractor under the Contract, including any claims for adjustment in accordance with clause 6.8.
- 9.6.3 If the Contractor enters into a Subcontract in accordance with clause 9.7, the Contractor shall ensure that Subcontracts require Subcontractors to give the Commonwealth Representative access to Subcontractors' premises, and to records and accounts in connection with the performance of work under the Subcontract, including the right to copy.
- 9.6.4 The Commonwealth shall comply with, and shall require any delegate or person authorised by the Commonwealth Representative to comply with, any reasonable Contractor or Subcontractor safety and security requirements or codes of behaviour for the premises.

9.7 Subcontracts

- 9.7.1 The Contractor shall not Subcontract the whole of the work under the Contract.
- 9.7.2 The Contractor, by subcontracting any part of the work under the Contract or by obtaining the Commonwealth Representative's approval of a Subcontractor, shall not be relieved of its liabilities or obligations under the Contract, and shall be responsible for all Subcontractors

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9.7.3 The Contractor shall not enter into a Subcontract under the Contract with a Subcontractor named by the Director of Equal Opportunity for Women in the Workplace Agency as an employer currently not complying with the *Equal Opportunity for Women in the Workplace Act 1999*.

9.7.4 The Contractor, if requested by the Commonwealth Representative, shall provide the Commonwealth Representative with names of all Subcontractors and a copy of any Subcontract, which copy need not contain prices. The Contractor acknowledges and shall inform its Subcontractors that the Commonwealth may be required to publicly disclose the Subcontractors' participation in the performance of the Contract.

9.8 Defence Security

9.8.1 If the Contractor requires access to any Commonwealth place, area or facility under the control or responsibility of the Department of Defence or the ADF, the Contractor shall:

- a. comply with any security requirements notified to the Contractor by the Commonwealth Representative from time to time; and
- b. ensure that its officers, employees, agents and Subcontractors are aware of and comply with the Commonwealth's security requirements.

9.8.2 The Contractor shall:

- a. ensure that its officers, employees, agents and Subcontractors, undertake any security checks or clearances as required by the Commonwealth;
- b. notify the Commonwealth of any changes to circumstances which may affect the Contractor's capacity to provide the Supplies in accordance with the Commonwealth's security requirements; and
- c. provide any written undertaking in respect of security or access to a Commonwealth place, area or facility in the form required by the Commonwealth.

9.8.3 If there has been a breach by the Contractor, or any of their officers, employees or agents, or Subcontractors of clause 9.8, the Commonwealth Representative may give the Contractor a notice of termination for default under clause 11.2.1.

9.8.4 The Contractor shall ensure the requirements of clause 9.8 are included in all Subcontracts where the Subcontractor requires access to any Commonwealth place, area or facility or to any security classified information in order to perform the obligations of the Subcontract.

9.9 Post Defence Separation Employment

9.9.1 The Contractor shall ensure that any employee who is a former Defence employee complies with the requirements of the DWRM and DI(G) PERS 25-4 as applicable.

9.9.2 Except with the written approval of the Commonwealth Representative, the Contractor shall not permit a person who:

- a. in a Relevant Period was an Employee or Service Provider to Defence engaged in the preparation or management of the Contract, the selection of the Contractor or the performance of the project or activity to which the Contract relates; or
- b. in the 12 months immediately preceding the request for approval was an Employee; to perform or contribute to the performance of the Contract.

9.9.3 The Commonwealth Representative shall not unreasonably withhold approval under clause 9.9.2 and shall consider:

- a. the character and duration of the engagement, services or work performed by the Employee or Service Provider in the period specified in clause 9.9.2a or 9.9.2b as applicable;
- b. any information provided by the Contractor about the character and duration of the services to be performed by the Employee or Service Provider under the Contract;
- c. the potential for real or perceived conflicts of interest or probity objections if the Employee or Service Provider performs or contributes to the performance of the Contract;

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- d. any information provided by the Contractor concerning any significant effect which withholding approval will have on the Employee or Service Provider's employment opportunities or the performance of the Contract; and
 - e. the policy set out in DWRM and DI(G) PERS 25-4, as applicable.
- 9.9.4 Each restriction created by clause 9.9, by the operation of the definition of 'Relevant Period' (due to the three Relevant Periods applying), is separate and independent of the other (although they are concurrent in effect).

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10. POLICY AND LAW**10.1 Applicable Law**

- 10.1.1 The laws of the State of Victoria shall apply to the Contract. The courts of that State shall have non-exclusive jurisdiction to decide any matter arising out of the Contract.
- 10.1.2 The *United Nations Convention on Contracts for the International Sale of Goods* shall not apply to the Contract.

10.2 Not Used**10.3 Policy Requirements**

- 10.3.1 Subject to clause 10.3.2, the Contractor shall comply with and require its officers, employees, agents and Subcontractors to comply with the following Commonwealth policies of general application relevant or applicable to the Contract:
- a. Defence Equity and Diversity policy as detailed in the *Defence Plain English Guide to Managing and Reporting Unacceptable Behaviour*, DPI 1/2001; and DI(G) PERS 35-3;
 - b. Defence Stocktaking policy as detailed in the DI(G) LOG 4-3-014;
 - c. Equal Opportunity for Women in the Workplace policy as detailed in the DPPM;
 - d. Hazardous Substances policy as detailed in the DPPM;
 - e. Ozone Depleting Substances and Synthetic Greenhouse Gases policy as detailed in the DPPM;
 - f. Maximising Employment Opportunities for Aboriginal and Torres Strait Islander policy as detailed in the DPPM;
 - g. Homeworker Code of Practice (refer <http://www.workplace.gov.au/workplace/Programmes/Homeworkers+Code+of+Practice+Program/> and www.nosweatshoplabel.com).
- 10.3.2 Notwithstanding clause 1.5, if the SOW is inconsistent with a policy mentioned in clause 10.3.1, the Contractor shall comply with the SOW to the extent of the inconsistency.

10.4 Occupational Health and Safety

- 10.4.1 The Contractor shall perform its obligations under the Contract in such a way that:
- a. Commonwealth employees (as defined in Section 9(1) of the *Occupational Health and Safety (Commonwealth Employment) Act 1991*) are able to participate in any necessary inspections of work in progress and tests and evaluations of the Supplies without the Commonwealth being in breach of; and
 - b. the Commonwealth is, as from Acceptance of the Supplies, able to maintain and to make full use of the Supplies for the purposes for which they are intended without being in breach of,
- any Occupational Health and Safety statutory requirements which apply to the Supplies.

10.5 Environmental Obligations

- 10.5.1 The Contractor shall perform its obligations under the Contract in such a way that:
- a. the Commonwealth is not placed in breach of; and
 - b. the Commonwealth is able to support and to make full use of the Supplies for the purposes for which they are intended without being in breach of;
- any applicable environmental legislation including the Environment Protection and Biodiversity Conservation Act 1999.

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10.6 Severability

- 10.6.1 If any part of the Contract is or becomes illegal, invalid or unenforceable, the legality, validity or enforceability of the remainder of the Contract shall not be affected and shall be read as if that part had been severed.

10.7 Privacy

- 10.7.1 The Contractor shall:
- a. use or disclose Personal Information obtained during the course of performing the Contract, only for the purposes of the Contract;
 - b. not do any act, or engage in any practice that would breach an Information Privacy Principle contained in section 14 of the Privacy Act 1988, which if done or engaged in by an Agency, would be a breach of that Information Privacy Principle;
 - c. not use or disclose Personal Information, or engage in an act or practice that would breach section 16F of the Act, or a National Privacy Principle, particularly National Privacy Principles 7 through to 10 or an Approved Privacy Code, unless:
 - (i) in the case of section 16F, the use or disclosure is necessary, directly or indirectly, to discharge an obligation under the Contract; or
 - (ii) in the case of a National Privacy Principle or an Approved Privacy Code, if the activity or practice is engaged in for the purpose of discharging, directly or indirectly, an obligation under the Contract, and the activity or practice is inconsistent with the National Privacy Principle or Approved Privacy Code;
 - d. notify individuals whose Personal Information is held by the Contractor or Subcontractor, as the case may be, of the complaints mechanism outlined in the Act that may apply to the Contractor;
 - e. disclose in writing to any person who asks, the content of the provisions of the Contract (if any) that are inconsistent with a National Privacy Principle or an Approved Privacy Code binding a party to the Contract;
 - f. carry out and discharge the obligations contained in the Information Privacy Principles as if it were an Agency under the Act; and
 - g. ensure that any officer, employee or agent of the Contractor who is required to deal with Personal Information for the purposes of the Contract, is made aware of the obligations of the Contractor as set out in this clause 10.7.
- 10.7.2 The Contractor shall promptly notify the Commonwealth Representative if the Contractor:
- a. becomes aware of a breach or possible breach of any of the obligations contained in, or referred to in, clause 10.7, whether by the Contractor or a Subcontractor;
 - b. becomes aware that a disclosure of Personal Information may be required by law; or
 - c. receives a request or inquiry from the Privacy Commissioner, or by any individual to whom any Personal Information held by the Contractor or Subcontractors relates, in respect of Personal Information.
- 10.7.3 The Contractor shall ensure that all Subcontracts entered into for the purposes of fulfilling its obligations under the Contract contains provisions to ensure that each Subcontractor has the same awareness and obligations as the Contractor has under clause 10.7, including the requirement in relation to Subcontracts.

11. DISPUTES AND TERMINATION**11.1 Resolution of Disputes**

- 11.1.1 If a dispute arising between the Commonwealth and the Contractor cannot be settled by negotiation (including negotiation between senior management of the parties) within 30 days, the parties may agree to use an alternative dispute resolution process to attempt to resolve the dispute.
- 11.1.2 The parties shall at all times during the dispute continue to fulfil their obligations under the Contract.

11.2 Contractor Default

- 11.2.1 The Commonwealth may immediately terminate the Contract or reduce the scope of the Contract by notice in writing to the Contractor, if the Contractor:
- a. becomes bankrupt or insolvent;
 - b. becomes subject to any form of administration or assigns its rights otherwise than in accordance with the Contract;
 - c. commits any breach for which the Contract provides a notice of termination for default may be given; or
 - d. fails to take action to remedy a default by the Contractor of another obligation to be performed or observed under the Contract within 14 days of being given notice in writing by the Commonwealth Representative to do so or, where action is taken within 14 days, the Contractor fails to remedy the default within the period specified in the notice.
- 11.2.2 If the Contract is terminated under this clause or otherwise:
- a. the Contractor shall deliver to the Commonwealth, as required by the Commonwealth, all documents in its possession, power or control or in the possession, power or control of its officers, employees, agents or Subcontractors and Personnel, which contain or relate to any Commercial-In-Confidence Information or which are security classified;
 - b. subject to clause 11.5, the parties shall be relieved from future performance, without prejudice to any right of action that has accrued at the date of termination;
 - c. rights to recover damages, including full contractual damages, shall not be affected; and
 - d. the Contractor shall deliver to the Commonwealth the TD for Supplies produced prior to the date of termination, within 30 days after receipt of the notice of termination or other period agreed between the parties.
- 11.2.3 The Commonwealth may also terminate the Contract by written notice if:
- a. the Contractor has persistently failed to meet its obligations under the Contract; or
 - b. in the Commonwealth's reasonable opinion, even though any breaches may have been remedied on each occasion, the cumulative effect of these breaches is sufficient for the Commonwealth to conclude that the Contractor cannot be relied upon to provide the Supplies required by the Commonwealth and the relationship between the parties is no longer workable.

11.3 Termination for Convenience

- 11.3.1 In addition to any other rights it has under the Contract, the Commonwealth may at any time terminate the Contract or reduce the scope of the Contract by notifying the Contractor in writing.
- 11.3.2 If the Commonwealth Representative issues a notice under clause 11.3.1, the Contractor shall:
- a. stop work in accordance with the notice;
 - b. comply with any directions given to the Contractor by the Commonwealth; and

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- c. mitigate all loss, costs (including the costs of its compliance with any directions) and expenses in connection with the termination, including those arising from affected Subcontracts.

11.3.3 The Commonwealth shall only be liable for:

- a. payments under the payment conditions of the Contract for work conducted before the effective date of termination; and
- b. any reasonable costs incurred by the Contractor that are directly attributable to the termination,

when the Contractor substantiates these amounts to the satisfaction of the Commonwealth Representative.

11.3.4 The Contractor shall not be entitled to profit anticipated on any part of the Contract terminated.

11.3.5 The Contractor, in each Subcontract, shall secure the right of termination and provisions for compensation functionally equivalent to that of the Commonwealth under clause 11.4.

11.4 Right of Commonwealth to Recover Money

11.4.1 Without limiting the Commonwealth's rights under the Contract, if the Contractor owes any debt to the Commonwealth in relation to the Contract, the Commonwealth may at its discretion exercise one or both of the following:

- a. deduct the amount of the debt from payment of any claim; or
- b. provide the Contractor with written notice of the existence of a debt recoverable which shall be paid by the Contractor within 30 days of receipt of notice.

11.4.2 If any sum of money owed to the Commonwealth is not received by its due date for payment, the Contractor shall pay to the Commonwealth interest at the Reserve Bank of Australia cash rate target current at the date the payment was due for each day the payment is late.

11.4.3 Nothing in clause 11.4 affects the right of the Commonwealth to recover from the Contractor the whole of any debt owed by the Contractor, or any balance that remains owing after deduction.

11.5 Survivorship

11.5.1 Any term of the Contract which expressly or by implication from its nature is intended to survive the termination or expiration of the Contract and any rights arising on termination or expiration shall survive, including Commercial-in-Confidence Information, IP, Right of Commonwealth to Recover Money, Defence Security and any warranties, guarantees, licences, indemnities or financial and performance securities given under the Contract.

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SIGNED AS AN AGREEMENT

SIGNED for and on behalf of

THE COMMONWEALTH OF AUSTRALIA:

STAFF-IN-CONFIDENCE

Signature

Printed Name

A/DCLOSP0

Position Title

22 DEC 2009

Date

In the presence of:

STAFF-IN-CONFIDENCE

Signature

Printed Name

APM FCA

Position Title

22 DEC 2009.

Date

SIGNED for and on behalf of

THE CONTRACTOR:

STAFF-IN-CONFIDENCE

Signature
Director

Printed Name

BDM

Position Title

22 Dec 2009.

Date

In the presence of:

STAFF-IN-CONFIDENCE

Signature
Director / Secretary

Printed Name

General Manager

Position Title

22 Dec 2009.

Date

STATEMENT OF WORK

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1. SCOPE

1.1 Purpose

- 1.1.1 The purpose of this SOW is to communicate, to the Contractor, Commonwealth requirements and standards for work to be carried out under the Contract and to allocate work responsibilities between the Commonwealth and the Contractor.

1.2 Background

- 1.2.1 The Commonwealth has a requirement for the manufacture and supply of Disruptive Pattern Uniforms in Disruptive Pattern Print (DPP) and Disruptive Pattern Desert Print (DPDP).

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2. GENERAL REQUIREMENTS**2.1 Scope of Work**

- 2.1.1 The Contractor shall perform all activities necessary to deliver the Supplies to the Commonwealth in accordance with the Contract.
- 2.1.2 The Contractor shall ensure that the Supplies meet the requirements of the Specifications at Annex A to this SOW.

2.2 Delivery of Supplies

- 2.2.1 The Contractor shall ensure that all Supplies are packaged and marked for delivery such that the delivered items comply with appropriate package marking, consignment documentation and documentation language standards as may be necessary to meet the requirements of the Contract.
- 2.2.2 The Contractor acknowledges that DEF(AUST)1000C details the packaging requirements for the Contract, including:
- a. specific packaging requirements;
 - b. primary and secondary packages;
 - c. container size and weight;
 - d. marking and identification of packages; and
 - e. palletisation and marking and identification of palletised (Unit) loads.
- 2.2.3 The Contractor shall not commence production of any Supplies until the Commonwealth has Accepted item 1 listed in the Price and Delivery Schedule at Attachment B in accordance with clause 5.2 of the Conditions of Contract and clause 7 of this SOW.

2.3 Deliverable Data Items

- 2.3.1 The Contractor shall deliver all Contract Data Items to the Commonwealth Representative in the Contractor's format.
- 2.3.2 Within 30 days of receipt of any Contract Data Item the Commonwealth Representative shall advise the Contractor in writing that the item is either Approved or not Approved.
- 2.3.3 Where the Commonwealth Representative provides the Contractor with notice of non-Approval of a Contract Data Item then the Commonwealth Representative shall advise the Contractor in writing of the reasons for this, and may provide details of any corrective action to be taken by the Contractor before the item will be reconsidered.
- 2.3.4 The Commonwealth Representative shall withhold Approval of a Contract Data Item, only if, in the judgement of the Commonwealth Representative, the item submitted by the Contractor:
- a. is not clearly understandable;
 - b. does not provide adequate detail,
 - c. is inconsistent with the Contract; or
 - d. does not meet the objective of the required Contract Data Item.
- 2.3.5 The Commonwealth Representative may not withhold Approval of a Contract Data Item for minor omissions or defects in the item which are identified in writing to the Contractor. In addition to the criteria for non-Approval detailed in clause 2.3.4, any subsequent Approval of an update to a Contract Data Item that was previously Approved with minor omissions or

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defects shall be subject to the Contractor addressing those identified omissions or defects in the proposed update to the satisfaction of the Commonwealth Representative.

- 2.3.6 Where the Commonwealth Representative provides the Contractor with notice of non-Approval in accordance with clause 2.3.2 the Contractor shall, within a period of 14 days (or within such further period as the Commonwealth Representative may allow), deliver the rectified Contract Data Item for Approval.
- 2.3.7 If, within the time specified under clause 2.3.6, the Contractor submits the rectified Contract Data Item as conforming to the requirements of the Contract, the Commonwealth Representative shall be entitled to exercise the rights provided by this clause 2.3 as if the Contract Data Item had been submitted by the Contractor for the first time.
- 2.3.8 Where the Commonwealth Representative fails to furnish to the Contractor notice in writing of Approval or non-Approval in accordance with clause 2.3 within the specified 14 days, then any delay shall be considered to be delay caused by the Commonwealth and this failure may, where appropriate, entitle the Contractor to claim a postponement of the date for delivery of Supplies. The Contractor shall notify the Commonwealth of its intent to claim a postponement of the date for delivery of Supplies no later than five days after the specified 14 day period expires and shall submit a proposal to change the Contract in accordance with clause 9.1 of the Conditions of Contract no later than seven days after the Commonwealth does notify the Contractor of its Approval or non-Approval.
- 2.3.9 Where the Contractor notifies the Commonwealth and submits a proposed change to the Contract in accordance with clause 2.3.8, and can demonstrate, to the Commonwealth's satisfaction, that:
- the delay in providing notice of Approval or non-Approval delayed the Contractor in the performance of its obligations under the Contract; and
 - the period being claimed for postponement of the date of delivery of Supplies is reasonable and directly related to the Commonwealth's failure to provide the required notice,
- then, on the Commonwealth notifying the Contractor that it has been satisfied that the requirements of this clause have been met, the date for delivery of the affected Supplies shall be varied by the period specified in the Commonwealth's notice to the Contractor and the Contract shall be amended in accordance with clause 9.1 of the Conditions of Contract.
- 2.3.10 Approval of a data item by the Commonwealth shall:
- be construed as no more than an indication that the data item appears to the Commonwealth Representative to be capable of being used as a basis for further work;
 - not be construed as limiting the Contractor's responsibility to provide Supplies in accordance with the requirements of the Contract; and
 - not be construed as a waiver of any right under this Contract or any cause of action arising out of any act or omission of the Contractor or its servants, agents or employees.

2.4 Hazardous Substances and Ozone Depleting Substances

- 2.4.1 The Contractor shall not provide Supplies containing an Ozone Depleting Substance.
- 2.4.2 The Contractor shall not provide Supplies containing any Hazardous Substances.
- 2.4.3 The Contractor shall be responsible for all materials used by its Subcontractors.

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3. PROJECT MANAGEMENT**3.1 Contractor's Project Management Arrangements**

- 3.1.1 The Contractor shall nominate within its company structure a project manager (referred to as the 'Contractor's Project Manager') with suitable capability and authority to manage the Contract.

3.2 Not Used

3.3 Not Used

3.4 Extraordinary Meetings

- 3.4.1 Either party may call Extraordinary Meetings to discuss project matters where submission of other forms of communication are inadequate to resolve the issues at hand.

- 3.4.2 When scheduling Extraordinary Meetings the party calling the meeting shall provide the other party with reasonable advance notice of such meetings, including advice of the meeting objectives and agenda. Extraordinary Meetings shall not be conducted until the Commonwealth Representative has approved the agenda.

- 3.4.3 The party calling the Extraordinary Meeting shall chair meetings unless otherwise agreed by the Commonwealth Representative.

- 3.4.4 Extraordinary Meetings shall be held at the Contractor's premises unless otherwise agreed by the Commonwealth Representative.

- 3.4.5 Within seven days of completion of each Extraordinary Meeting the Contractor shall prepare minutes of the meeting, reporting significant factors discussed, and decisions taken, and deliver them to the Commonwealth Representative for Approval.

- 3.4.6 The party at whose premises the Extraordinary Meeting is held shall provide the facilities, materials and services reasonably required for the conduct of the meeting. If the meeting is held at a third party's premises, such facilities, materials and services shall be provided as agreed by the parties.

3.5 Maintenance of Contractual Documents

- 3.5.1 The Contractor shall incorporate all changes to the Contract and maintain a configured copy of the Contract

- 3.5.2 The Contractor shall archive all superseded versions of the Contract.

- 3.5.3 The exact status of the Contract at any previous time shall be able to be determined from the archived versions of the Contract material.

3.6 Not Used

3.7 Stocktaking of Contractor Managed Commonwealth Assets

- 3.7.1 The Contractor shall:
- a. institute, maintain and apply a system for, the accounting for and control, handling, preservation, protection and maintenance of CMCA;

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- b. undertake quarterly stocktakes of CMCA; and
 - c. develop and deliver quarterly CMCA stocktaking reports that include the following information:
 - i. the stocktake number;
 - ii. the storage location of all goods included in the stocktake;
 - iii. all stocktake codes;
 - iv. stocktake start and end dates; and
 - v. statistical data including the quantity and value of all discrepancies, shelf stock held, shelf stock stocktaked, surpluses and deficiencies.
- 3.7.2 The Contractor shall promptly conduct investigations into every discrepancy arising from stocktakes of CMCA.
- 3.7.3 The Contractor shall immediately notify the Commonwealth Representative of any deficiencies that are discovered through a stocktake of CMCA.

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4. INTEGRATED LOGISTICS SUPPORT**4.1 Not Used**

4.2 Not Used

4.3 Not Used

4.4 Disposal Requirements

4.4.1 The Contractor shall deliver to the Commonwealth Representative with item 1 of the Price and Delivery Schedule at Attachment B a Disposal Requirements Report detailing the disposal methods and procedures required for the Supplies, including any special disposal requirements due to legislative, regulatory, security, environmental, or any other restrictions.

4.4.2 The Contractor shall manage disposal activities in accordance with the approved Disposal Requirements Report.

4.4.3 The disposal method for disruptive pattern fabric manufactured or purchased for the purposes of the Contract shall be destruction.

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6. QUALITY MANAGEMENT PROGRAM**6.1 Contractor Quality Management Responsibilities**

- 6.1.1 The Contractor shall have an established and maintained QMS Certified to the requirements of AS/NZS ISO 9001:2000, at the Effective Date.
- 6.1.2 Not Used.
- 6.1.3 Not Used.
- 6.1.4 The Contractor shall maintain and apply the QMS specified in clause 6.1.1 to the production of the Supplies.
- 6.1.5 The Contractor shall inform the Commonwealth Representative of any changes to the Contractor's Certification status.
- 6.1.6 The Contractor shall ensure that all work performed under a Subcontract meets the requirements of the QMS to be applied by the Contractor under clause 6.1.4.
- 6.1.7 Not Used.
- 6.1.8 During progress of work under the Contract, the Commonwealth may at its discretion perform Audit and Surveillance activities in relation to the work performed, including any of the following:
- a. System Audit;
 - b. Process Audit; or
 - c. Product Audit.
- 6.1.9 If at any time the Commonwealth Representative determines by Audit and Surveillance in accordance with this clause 6.1 or otherwise that, in relation to the production of the Supplies:
- a. the QMS applied no longer conforms to the Certified Quality System; or
 - b. the products produced do not conform to the Specifications,
- then the Commonwealth Representative may notify the Contractor in writing of the details of the non-conformance and require the Contractor to correct the non-conformance within the period specified in the notice
- 6.1.10 The Contractor shall take whatever action is necessary to correct a Quality System/Process/Product non-conformance within the period specified in the notice issued pursuant to clause 6.1.9 or within any period agreed in writing by the Commonwealth Representative, and shall advise the Commonwealth Representative immediately upon taking corrective action. The Commonwealth may perform an Audit to verify that the Non-Conformance has been corrected.
- 6.1.11 The Contractor shall apply to the Supplies the sampling procedures of AS 1199-2003 'Sampling Procedures and Tables for Inspection by Attributes', with reference to Single Sampling, Normal Inspection, and General Inspection Level II.
- 6.1.12 The Commonwealth Representative has delegated a Quality Assurance Representative to act on its behalf in respect of quality audits and quality surveillance of work performed under the Contract

Telephone No

(03) 9282 6734

Facsimile No

(03) 9282 5983

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6.2 Commonwealth Representative Approval of Non-Conforming Supplies

- 6.2.1 Where the Contractor seeks to use non-conforming materials or work in the Supplies, it shall submit an Application for Deviation Form SG2, together with all supporting documentation for Commonwealth Representative approval.
- 6.2.2 Any approval given by the Commonwealth Representative for the use of non-conforming materials shall not release the Contractor from due performance of any of its obligations under the Contract, except to the extent specifically set out in the Application for Deviation Form SG2.
- 6.2.3 Where variations to cost or schedule result from approval of an application, the Contractor shall give details of the variation in the application. Written approval of the Commonwealth Representative to such cost or schedule variations is required in accordance with clause 9.1 of the Conditions of Contract.

6.3 Test Requirements

- 6.3.1 Prior to offering any Supplies for Acceptance, including Pre-Production Samples (PPS), the Contractor shall provide the Commonwealth Representative with endorsed test reports from a testing authority accredited to AS ISO/IEC 17025 demonstrating that the Supplies meet the requirements of the Contract, when tested in accordance with the requirements of the following specifications (as applicable):
- a. ARMY(AUST)6542;
 - b. DEF(AUST)10760;
 - c. DEF(AUST)10759;
 - d. DEF(AUST)10761; and
 - e. DEF(AUST)8746.
- 6.3.2 The Contractor shall conduct full testing every 10,000m to the relevant specifications listed.
- 6.3.3 The test certificates shall be traceable to the Supplies.
- 6.3.4 The Commonwealth reserves the right to witness any testing of Supplies conducted for the purpose of Acceptance. The Contractor shall notify the Commonwealth Representative a minimum of five days prior to the conduct of any testing.

6.4 Contractor Certification

- 6.4.1 Where Supplies are ready for delivery to Defence, the Contractor shall certify their conformance to Contract requirements by means of a Certificate of Conformity.
- 6.4.2 A Certificate of Conformity is an original manufacturer's document signed by the Contractor Representative which certifies that the Supplies conform to the requirements of the Contract. The purpose of this document is to ensure that the goods supplied with it are authentic, their origin traceable and that they meet the specification and conditions contained in the Contract. The format of the certificate is not specified however, the following minimum information must be included on one document with company letterhead:
- a. NATO stock No / Part / Catalogue or other reference number;
 - b. Quantity submitted;
 - c. Contract number;
 - d. Invoice number and Date of dispatch;
 - e. Description of Supplies - This must include sufficient data such as batch numbers, remarks, etc to ensure traceability of the component back to and through its manufacturing process;

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- f. Contractors Certification: The original manufacturer is to certify the following:

"It is certified that the whole of the Supplies supplied with this certificate have been tested, inspected and/or otherwise Quality controlled in accordance with the terms and conditions of Contract No CBT/CLOSP0/09/02 and unless otherwise stated above are in accordance and conform in all respects with the terms and conditions of Contract No CBT/CLOSP0/09/02."; and

- g. The signature and designation of the Contractor Representative is to be clearly shown and the signature is to be witnessed and the details of the witness provided.

- 6.4.3 The Commonwealth reserves the right to perform, or have performed, any examinations, tests, quality audits or quality surveillance necessary to ensure that the Supplies conform to the requirements of the Contract.

7. PRE-PRODUCTION SAMPLES

7.1 Pre-Production Samples

- 7.1.1 The Contractor shall provide PPS in accordance with this clause and the Price and Delivery Schedule at Attachment B to the Conditions of Contract, prior to delivery of any other Supplies.
- 7.1.2 The Commonwealth will evaluate the PPS against the requirements of the Contract and either Accept or reject them by notice in writing within 21 days.
- 7.1.3 If the PPS are rejected the Commonwealth shall notify the Contractor by notice in writing of the reasons for rejection and allow a period of 14 days, or any other period agreed in writing by the Commonwealth, for rectification and re-submission. The Contractor is responsible for all costs associated with re-submission of PPS.
- 7.1.4 The Commonwealth will evaluate re-submitted PPS in accordance with clause 7.1.2 and either accept or reject them within 14 days by notice in writing.
- 7.1.5 If the re-submitted PPS are rejected or not submitted within the 14 day period, or other period agreed in writing by the Commonwealth, the Commonwealth may immediately terminate the Contract by issuing a notice of termination for default.
- 7.1.6 Following Acceptance of PPS, the Commonwealth will tag and return quantity one PPS to the Contractor for use as a reference sample. The other PPS will be retained by the Commonwealth for use as the product configuration baseline. In the event of any inconsistency between the two PPS the Commonwealth held PPS will prevail. The PPS held by the Contractor must be returned to the Commonwealth Representative at no cost at the completion of the Contract or as otherwise directed by the Commonwealth Representative.
- 7.1.7 Notwithstanding anything in this clause or elsewhere in this Contract, Commonwealth Acceptance of PPS shall not relieve the Contractor of any of its obligations under the Contract unless approval in writing is granted by the Commonwealth to the Contractor. In the event that the Commonwealth Accepts a PPS that does not meet the requirements of the Contract, this approval shall not relieve the Contractor of its obligations to provide Supplies to the Commonwealth that meet all requirements of the Contract, nor to remedy any defects under warranty in accordance with clause 8 of the Conditions of Contract, unless previously agreed to by the Commonwealth in writing.
- 7.1.8 Production of Supplies, other than PPS, listed in the Price and Delivery Schedule at Attachment B to the Conditions of Contract shall not occur until the Commonwealth Accepts the PPS by notice in writing.

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ANNEX A

SPECIFICATIONS

1. ARMY(AUST)6542, Issue 7
2. DEF(AUST)10760, Issue 2
3. DEF(AUST)10759, Issue 1
4. DEF(AUST)10761, Issue 1
5. DEF(AUST)8746, Issue 3

Note: Refer to attached PDF copies

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SERVING THE NATION

SPECIFICATION ARMY(AUST) 6542
For
UNIFORM, COMBAT,
DISRUPTIVE PATTERN PRINTED

Published under the authority
of the Department of Defence

Status: Issue 7

Note: It is the responsibility of the tenderer to check the issue and amendment status of this specification prior to use.

Specification ARMY (AUST) 6542
Issue 7 (June 2004)

This contract specification is the **property** of the Department of Defence (ARMY)

The approving authority for this Contract Specification is the Director Land Engineering Agency on behalf of Head-Land Systems Division, Defence Materiel Organisation.

This Contract Specification and associated documentation may be used only for specific inquiries, tenders or orders, placed by an Officer for the Department of Defence (Army) and is not to be used for other purpose whatsoever, without the express written sanction of the DLEA (A.)

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Any questions regarding this document should be addressed to the authority named in the tender schedule.

Copies of this specification can be obtained from:

Technical Data Centre – Equipment Information Section
661 Bourke St
MELBOURNE VICTORIA AUSTRALIA 3000

AMENDMENT CERTIFICATE

Amendment			Incorporated	
No	Date	Paragraphs affected	Name and initials	Date
1	MAY 1987	Introduction	GSC 274/87	MAY 1987
2	FEB 1989	Rewrite	GSC 13/88	FEB 1989
3	FEB 1990	4.6.21.2 and 4.6.1.3	SCDDG 110/89	FEB 1990
4	AUG 1996	Rewrite	ATEA	AUG 1996
5	MAY 2001	Rewrite	Laurence Pain (SCS-SPO)	MAY 2001
6	MAR 2002	1.3.6, 2.3.1, 2.4.1, 2.4.2, 2.6.1.2, 2.6.1.7, 2.6.2.6, 2.6.2.9, 2.7 (Table 1), 2.8 and 2.10.	Laurence Pain (SCS-SPO)	MAR 2002
7	JUNE 2004	Design Modification and Rewrite	Mary Gauci (SS-SPO)	JUNE 2004

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1. **INTRODUCTION**1.1. **SCOPE.**

This specification covers the minimum acceptance requirements for materials, manufacture and supply of Uniform, Combat, Disruptive Pattern Printed (DPP).

Note: Contractors may offer equivalent and/or superior standards of workmanship and/or materials provided that the appearance and design concept of the garments are not altered and the proposed changes are acceptable to the Procurement Authority.

1.2 **APPLICABLE DOCUMENTS.** Reference is necessary to the latest issue of the following documents:1.2.1 **Specifications and Standards.**1.2.1.1 **Department of Defence.**

Def (Aust) 1000	Requirements for Packaging of Stores for the Services ~ Part 5, 11 & 14 Marking of Packages
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1.2.1.2 **Army Specifications.**

Army (Aust) 6795	Cloth, Cotton/Polyester 75/25, Near Infrared, Disruptive Pattern Printed, Oxford and Twill weaves.
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1.2.1.3 **Standards Association of Australia.**

- | | | |
|----|--------------|---|
| a. | AS 2001 | Method of Test for Textiles. |
| b. | AS 2859-1986 | Textiles – Seam Types – Classification and Terminology. |
| c. | AS 2860-1986 | Textiles – Stitch Types – Classification and Terminology. |
| d. | AS 2332 | Slide Fasteners. |

Document Source. Copies of applicable documents and information regarding current editions may be obtained from:

1.2.2.1 Department of Defence Specifications and Australian Army Specifications:

Technical Data Centre Equipment Information Section
661 Bourke St
MELBOURNE VICTORIA 3000

1.2.2.2 Australian Standards:

Standards Association of Australia
GPO Box 5420
Sydney NSW 2001
Website: www.standards.com.au

- 1.3 **DEFINITIONS.** The Australian Macquarie Dictionary second edition 1992, is the reference source for all terms in this specification, except for the terms defined in this paragraph.
- 1.3.1 **Essential.** An essential criterion is one that must be achieved by a tendered item for it to be considered in the tendering process. Failure to meet any of these criteria will result in the rejection of the total offer.
- 1.3.2 **Important.** An important criterion is one that the Commonwealth expects to be met by the tendered item. Non-attainment of a particular important criterion will not disqualify an equipment from consideration. An item that does not meet the majority of important criteria is unlikely to be accepted.
- 1.3.3 **Desirable.** A desirable criteria is one that the Commonwealth would like to obtain. It is accepted that desirable criteria may not be obtainable or may need to be traded off to achieve important criteria. It is expected that Tenders will achieve desirable criteria when ever possible within design constraints. Failure to meet desirable criteria will not prevent the tender from being accepted.
- 1.3.4 **Expected.** An expected criteria is an essential element that the Commonwealth assumes the delivered item will provide. These items will not form part of the tendered assessment. Unless otherwise stated in the tendered documents, the Commonwealth will assume that the Contractor will include expected elements in the tendered price.
- 1.3.5 **Advice.** An advice annotation indicates that the clause provides advice or information to tender's. An advice annotation clause does not effect the evaluation process.
- 1.3.6 **Machine Tack.** Machine Tack shall consist of four stitches forward and four stitches back, excluding the initial attachment stitching. Eg: Three rows of four stitches.
2. **REQUIREMENTS.**
- 2.1 **SAMPLES.** Sealed samples are supplied, as a guide only for style, general appearance finish, workmanship and any other characteristics not defined in this specification. The specification must be strictly adhered to in all respects. Should the specification and sealed sample be at variance the specification shall govern. Sealed samples are obtainable form the authority nominated in the Tender schedule. **[Essential]**
- 2.2 **PRODUCT STANDARD.**
- 2.2.1 **Patterns.** Standard patterns are supplied by the Department, on request, for guidance in cutting working patterns. The Department Patterns show size, directional lines, seam allowances, placement of pockets, placment of patches and notches for proper assembling. The Departmental Patterns do not include any manufacturing allowances. The working patterns may be adjusted to suit individual variations in manufacturing techniques, provided the adjustments do no vary the finished items in style, balance, character or dimensions. Pattern variations constituting a design change shall be actioned using the procedure given in the tender schedule.**[Advice]**
- 2.2.2 **Dimensions.** All detailed measurements of the garments shall be governed solely by this specification. Measurements relating to size are specified in Annex A, and should be verified by the methods given in Annex A. All other measurements are given in the relevant sub-paragraph of this specification. Grading variation is required for some components and will be indicated in the appropriate sub-paragraph.**[Essential]**
- 2.2.3 **Coat.** The back, the fronts and the sleeves shall be cut with the longer dimension in the direction of the warp. The pockets and the elbow patches may be cut in either direction, provided that all components of a given coat are cut in the same direction. All other components may be cut in either direction.**[Essential]**

- 2.2.4 **Trousers.** The fronts and the undersides shall be cut with the longer dimension in the direction of the warp. The thigh pockets and the knee patches may be cut in either direction, provided that all components of a given pair of trousers are cut in the same direction. All other components may be cut in either direction. **[Essential]**

Note: When requested by the Procurement Authority, the direction of the DP pattern may be reversed in all panels. All components of a coat or pair of trousers, with specified direction for the pattern, are cut with the pattern in the same direction. **[Essential]**

- 2.2.5 **Replacement of Damaged Parts.** Any part containing holes or weakening defects such as smashes, multiple floats, slubs that may develop into a hole, or any parts damaged during the manufacturing process shall be replaced. **[Essential]**

- 2.2.6 **Tolerances.** Tolerances for controlling measurements are given at Annex A and tolerances for some other dimensions are given in the relevant sub-paragraph of this specification. Where a measurement is given without any tolerance, the implied range of the measurement is $\pm 10\%$ of the given measurement or $\pm 0.5\text{cm}$, whichever is greater. Notwithstanding any tolerance given, the garments shall be dimensionally balanced in all their parts. The maximum difference in the dimensions or position of corresponding features in either the coat or the trousers shall not exceed the tolerance given for the given single feature. All welt stitching does not have a specified tolerance; edge stitching shall be sewn adjacent to the edge and two-needle seams shall have a nominal gauge of 5mm. All welt stitching shall be continuous, (without any breaks in the thread), and smooth and even to the satisfaction of the Procurement Authority. **[Essential]**

2.3 MATERIALS.

- 2.3.1 **List of Materials.** The uniform is to be manufactured from the materials shown hereunder:

Component	Materials to be used
a. Coat	Cloth, Cotton/Polyester, 75/25, Near Infrared, DPP, Oxford weave. In accordance with item 1 of Army (Aust) 6795, NSN 8305-66-152-1013.
b. Trousers	Cloth, Cotton/Polyester, 75/25, Near Infrared, DPP, Twill weave. In accordance with item 2 of Army (Aust) 6795, NSN 8305-66-149-1014.
c. Buttons	Button, four holes, plastic (Urea), olive green, reversible, ligne 27.
d. Slide Fasteners	Slide fastener, Medium-Heavy, Chain width 5.5mm to 6.5mm in accordance with AS 2332 Table 1. The chain type shall be Offset Coil Elements in accordance with AS 2332 Figure 1 Fastener Chain Types, Item (d), with Locking Slider and end stops. The colour shall be of a shade to match the body material. [Essential]
e. Drawcord	Cord, Elastic, Nylon Covered, Olive Green, 3mm Diameter. [Essential]
f. Barreloc	Barreloc shall be fastex, NSN 8465-66-142-9336. [Essential]
g. Hook and Pile Tape	Tape closure hook and pile 2.5cm and 5cm wide and colour shall be of matching shade to the body material.

2.3.2 **Sewings**

- a. General The sewing thread shall be two or three ply with a finished linear density of $40 \pm 5 \text{ Tex}$. The thread may be either corespun cotton/polyester or spun polyester. The colour shall be of a matching shade to the body material.
- b. Overlocking The overlocking thread shall be spun polyester with a finished linear density of $25 \pm 2 \text{ Tex}$. The colour shall be of a matching shade to the body material.
- c. Buttons The button thread shall be two or three ply with a finished linear density of $60 \pm 5 \text{ Tex}$. The thread may be either corespun cotton/polyester or spun polyester. The colour shall be of a matching shade to the body material.

2.3.3 **Labels.** Refer sub-paragraph 2.9.12.3.3.1 **Colourfastness of Labels.** The colourfastness of the label shall conform to the requirements of sub-paragraphs 2.8.1 and 2.8.2.2.3.4 **Colourfastness of Sewing Thread.** The colourfastness of the sewing thread shall conform to the requirements of sub-paragraph 2.7. The colourfastness of all other materials, when supplied by the contractor, shall conform to the requirements of the relevant specifications given in paragraph 2. **[Essential]**2.4 **DESIGN**2.4.1 **Coat.** The coat shall be single breasted, with a six button front closure and spare button. The fronts shall have two breast patch pockets with slide fastener closure, shirt style one-piece collar, centre front epaulette and dolman sleeves with pockets, elbow patches and tabs at the cuff. Sleeve pockets shall have side bellows and pocket flaps with a patch of pile tape and button closure. All buttons used shall be ligne 27. Buttonholes for the front closure shall be the eyelet and taper bar type worked over gimp. All other buttonholes may be the same as the front's buttonholes or the straight bar type with a tack at each end, (shirt buttonhole). **[Essential]**2.4.2 **Trousers.** The trousers shall have two set-in side pockets, a hip pocket and two thigh patch pockets with bellows and slide fasteners closure. The waistband shall have five belt loops, two waist adjusting straps with hook and pile closure. The fly shall close with a slide fastener. The legs of the trousers shall have knee patches, knee action pleats and plain cuffs with elasticised drawcord/barreloc system and two eyelets in each turn up. All buttons used shall be ligne 27. All buttonholes shall be the eyelet and taper bar type worked over gimp. **[Essential]**2.5 **CONSTRUCTION SEAM TYPES**2.5.1 **Coat.** The side seams, shoulder seams, underarm seams, and sleeve head seams shall be sewn using seam type 2.04.03/401.401. The front's facings shall be sewn using seam type 6.03.01/301. The breast patch pockets shall be attached using seam type 5.31.01/301.301. The sleeve pockets shall be attached using seam type 5.31.02/301. The sleeve pocket flaps shall be constructed using seam type 1.06.02/301.301, with the outer stitching on the edge and attached using seam type 5.31.01/301.301. (considering the flap as a single ply). The collar shall be constructed using seam type 1.06.02/301 and attached using seam type 2.42.03/301.301, with the outer stitching on the edge. The coat and sleeve turn-up shall be constructed using seam type 6.03.01/301. The sleeve's cuff adjusting tabs shall be constructed using either seam type 8.19.01/301.301 or 8.06.02/301.301. The epaulette shall be constructed using seam type 1.06.02/301.301, with the outer stitching on the edge, and attached to the centre front using seam type 5.31.05/301.301 or 8.11.01/301.301. All other seams shall be as specified in the appropriate sub-paragraph. It is important that all sewing using stitch type 301, (lockstitch) shall have a stitch density of 40 ± 5 stitches per 10cm and all sewing using stitch type 401, (chainstitch) shall have a density of 35 ± 5 stitches per 10cm. **[Essential]**

- 2.5.2 **Trousers.** The back seam, outleg seams and inleg seams shall be sewn using seam type 2.04.03/401.401. The waist adjusting straps and the loops shall be constructed using either seam type 8.19.01/301.301 or 8.06.02/301.301. The fly shall be attached using seam type 2.02.03/301.301 and sewn along the appropriate contour line with a single row of top stitching. The fly underlap shall be constructed using seam type 1.06.02/301.301 and attached using seam type 7.51.02/301, (considering the underlap as a single ply). The side pockets shall be sewn using seam type 1.06.02/301.301. The pocketing shall be sewn using seam type 1.01.02/(401.504) or 1.06.02/301.301. The hip pocket shall be attached using seam type 5.31.02/301.301 and thigh pockets shall be attached using seam type 5.31.02/301. The thigh pocket welt shall be attached using seam type 5.31.01/301.301. All sewing using stitch type 301, (lockstitch), and stitch type 504 (overlocking), have a stitch density of 40 ± 5 stitches per 10cm and all sewing using stitch type 401, (chainstitch), have a density of 35 ± 5 stitches per 10cm. **[Essential]**
- 2.6 **MANUFACTURE**
- 2.6.1 **Coat.**
- 2.6.1.1 **Fronts.** The fronts shall be single breasted with a six button fly closure, and an additional spare button, fold back facings and lapel steps. The lapel steps shall be 3cm long. The fold back facing shall be 5cm wide. The left forepart shall have a fly and five horizontal buttonholes. The fly shall be 47cm \pm 1cm long, (finished) and consist of a folded ply of self material with the back edge folded and caught in the facing's seam. The top and bottom edges of the fly shall be folded under and sewn to the facing only with edge stitching. The fly shall be machine tacked to the facing between each pair of buttonholes. All buttonholes shall be positioned 1.5cm in from the front's edge; the top buttonhole shall be sewn on the front, 2cm down from the lapel step, the other five buttonholes shall be sewn on the fly. All buttonholes shall be 10cm \pm 0.5cm apart. The right forepart shall have six buttons sewn, so as to allow a satisfactory closure with an overall front overlap of 5cm. A spare button shall be attached to the right forepart underside 10cm below last button. **[Essential]**
- 2.6.1.2 **Centre Front Epaulette.** An epaulette shall be attached to the left centre front panel. The epaulette shall be self lined and edge stitched, and have a 2.5cm mitred end. The mitred end shall have a 2.5cm square patch of hook tape sewn diagonally 1cm down from the mitred point. The epaulette shall measure 15cm long (measured from the base to the mitre point), 5cm wide at the base and 4cm wide at the base of the mitre. The base of the epaulette shall be sewn to the left centre front with two rows of stitching and positioned 28.5cm down from the lapel step. A 2.5cm square patch of pile tape shall be sewn to the centre front, positioned so as to ensure that the strap is held smooth and flat for it's length when closed. **[Essential]**
- 2.6.1.3 **Patch Pockets.** The coat front's shall have two patch pockets with vertical openings. The front of pocket shall open by means of a concealed slide fastener closing towards the top of the pocket. The slide fastener shall be 20cm long, one stringer of the slide fastener shall be attached using seam type 7.02.03/301, and the other stringer attached using seam type 7.09.02/301, both with a double row of stitching. The pocket shall be positioned 11cm \pm 0.5cm down from the lapel step and 7cm in from the front's edge. The pocket shall be shall measure 19cm wide by 23cm long and shall be attached by a double row of stitching with nominal gauge of 5mm. The top and bottom opening shall be securely machine tacked. The bottom corner of the pocket shall have a 5mm diameter sewn eyelet positioned 1.5cm up from bottom edge and 1.5cm in from side edge. Both pockets shall finish in alignment. **[Essential]**
- 2.6.1.4 **Sleeves.** The sleeves shall be one piece, dolman style, with plain cuffs and have a 3cm turn-up. A tab with edge stitching and measuring 2.5cm wide by 9.5cm long and shall be machined on the front of each sleeve. The tab shall be positioned level with the sleeve's turn-up stitching, and the free end shall point to the back. The tab shall have a 2.5cm wide by 7cm long hook tape sewn to the underside of the tab, and positioned 1cm back from the free end of the tab, (the hook tape shall be sewn around all sides). Each cuff shall have a strip of pile tape 2.5cm wide by 19cm long, sewn 2cm from the attachment point of the tab, and in alignment with the tab. A horizontal bartack shall be positioned on the underarm seam at the bottom of the cuff, ensuring that the bartack covers the two rows of chainstitching. Elbow patch's shall be sewn to the hinder sleeve, one side of the patch shall be caught in the underarm seam and the other

three sides shall be sewn with edge stitching. The elbow patches shall measure 23cm \pm 0.5cm wide at the bottom, 26cm \pm 0.5cm wide at the top and 35cm \pm 0.5cm long. The patches bottom shall be positioned adjacent to the sleeve's turn-up seam. **[Essential]**

- 2.6.1.5 **Sleeve Pockets.** Each sleeve shall have a pocket with side bellows and a flap. The pocket shall measure 18cm \pm 5mm deep and 16cm \pm 5mm wide, (measured straight across and excluding the bellows). Each bellow shall take in 6cm of material, (total) and each fold shall be edge stitched. The outer fold of the bellow shall be stitched approximately 3mm in from the outer edge of the pocket to facilitate attachment of the pocket with automatic machinery. The top of the pocket shall be positioned 9.5cm \pm 5mm down from the sleeve head seam and the centre of the pocket shall be 1.5cm \pm 5mm forward of the sleeve centre line. The top corners of the pocket shall have an additional row of stitching 1.5cm long, securely machine tacked and have a nominal gauge 5mm. The bottom corners of the pocket shall be securely machine tacked. The pockets shall have two buttons sewn to ensure a neat closure of the flap. The top of the pocket shall have a turn in sufficiently wide to stay the flap's buttons. **[Essential]**
- 2.6.1.6 **Pencil Pocket.** The left sleeve shall have a pencil pocket sewn within the sleeve pocket adjacent to the pocket's front edge. The pencil pocket shall measure 5cm wide, extend to within 3cm of the bottom of the sleeve pocket and shall be attached with three rows of stitching, one row on each side and one row down the centre to form two compartments. The top of the pocket may be cut on the selvedge or have a neatened edge and shall be positioned 1.5cm down from the top of the sleeve pocket. The bottom shall be left open and not overlocked. **[Essential]**
- 2.6.1.7 **Sleeve Pocket Flaps.** A pocket flap incorporating a fly facing and lined with self material shall be positioned a clear 1cm \pm 0.5cm above each pocket and centred laterally. The flap shall be 7.5cm \pm 0.5cm deep and 1cm longer than the width of the pocket to which it is attached. A fly facing, consisting of a folded ply of self material, shall extend the full length of the flap. The fly shall finish 1cm above the bottom of the flap and shall be machine tacked to the flap's lining at the centre. The fly shall have two vertical buttonholes, positioned 3cm in from the sides and 1.5cm up from the bottom of the fly. The flap shall be attached to the sleeve with the raw edge of the fly facing caught in the top row of stitching only, (to minimise the thickness of the seam). The pocket flap shall be edge stitched. The flap shall have a strip of pile tape measuring 5cm wide by 8cm long sewn centrally over the flap 1cm up from the bottom edge. The pile tape shall be sewn to the topside of the flap, stitched around all sides and through the centre. **[Essential]**
- 2.6.1.8 **Back.** The back shall be one piece and hang smooth and flat. **[Essential]**
- 2.6.1.9 **Collar.** The collar shall be one piece, have edge stitching and finish smooth and flat without puckers. The length of the collar peaks shall be 6.5cm \pm 5mm long. The centre back shall be 7.5cm \pm 5mm wide. **[Essential]**
- 2.6.1.10 **Turn-Up.** The bottom of the coat shall have a 1cm turn-up. The turn-up shall be self-neatened and sewn with one row of stitching. **[Essential]**
- 2.6.2 **Trousers.**
- 2.6.2.1 **Waistband.** The waistband may be one piece or attached as a separate component. The waistband, lined with self material, shall be stitched with a double row stitching at the top and bottom and shall be 3.5cm wide. Each double row of stitching shall have a nominal gauge of 5 mm. The waistband shall close by means of a buttonhole on the left side, sewn a clear 1.5cm in from the edge and a buttonhole on the bearer. Two buttons shall be sewn at corresponding positions to allow a smooth and correctly aligned closure at the top of the fly. **[Essential]**
- 2.6.2.2 **Belt Loops and Waist Straps.** The waistband shall have five loops and two waist adjusting straps. The loops and straps shall be 2.5cm wide and edge stitched. Two loops shall be positioned on the fronts, 7cm from the fly's centre line, one positioned at the centre back and the other two aligned over the side seams. The loops shall be inserted into the top of the waistband and machine tacked across the full width of the loop. The bottom end of each loop

shall be machine tacked with two rows of stitching across the full width of the loop, ensuring that the straps lay smooth and flat when attached to the trouser. The belt loops shall have an effective loop of $10\text{cm} \pm 0.5\text{cm}$. The trousers shall have two waist adjusting straps located centrally over the width of the waistband and facing backwards. The straps shall be attached to the waistband with seam type 5.31.05/301, with the top stitching having a nominal gauge of 5mm, and shall have a finished length of $12\text{cm} \pm 0.5\text{cm}$. The straps shall be positioned under the front belt loops. Each strap shall have a 2.5cm wide by 9.5cm long hook tape attached to the underside of the strap $1\text{cm} \pm 0.5\text{cm}$ back from the free end of the strap. The hook tape shall be sewn around all sides. Pile tape, 2.5cm wide by 9.5cm long shall be sewn centrally over waistband, and positioned 5cm effective from the attachment point of the strap. The strap and pile tape shall finish in alignment. **[Essential]**

- 2.6.2.3 **Fly.** The fly shall have a slide fastener with buttons and buttonholes at the top. The bottom of the fly shall be finished with a machine or bar tack and shall finish not more than $7.5 \pm 1\text{cm}$ from the fork. The inner edges of the fly and the underlap shall be sewn together with a machine or bar tack positioned so as to take the strain from the bottom of the slide fastener. When the top of the slide fastener stringers are not caught in the waistband seam, they shall have a machine or bar tack at the top. **[Essential]**
- 2.6.2.4 **Fronts.** The fronts shall have two side pockets, knee patches and knee action pleats. The knee patches shall be 30cm long, the sides shall be caught in the inleg and outleg seams and the top and bottom edges shall be neatened and sewn with edge stitching. Each patch shall be positioned symmetrically about the knee line and include the knee action pleat. The knee action pleat shall take in a total of 5cm of material and shall be folded downwards. The action pleats of the front and the patch may be offset to reduce the thickness of the seams. **[Essential]**
- 2.6.2.5 **Side Pockets.** The trousers shall have two set-in side pockets angled to the side seam. The pocketing shall be cut from self material and shall be $17 \pm 1\text{cm}$ wide at the waistband seam, $20 \pm 1\text{cm}$ wide at the bottom bartack and $33 \pm 1\text{cm}$ long, (measured from waistband seam). The pocket opening shall extend from a point 4cm forward of the side seam at the waistband and finish adjacent to the side seam at the bottom bar tack. The top bar tack shall be parallel to and 1cm below the waistband seam. The bottom bar tack shall be inclined downwards at the front. The effective pocket opening shall be $18 \pm 0.5\text{cm}$. **[Essential]**
- 2.6.2.6 **Hip Pocket.** A patch pocket shall be attached to the right underside of the trousers. The pocket shall be $19 \pm 1\text{cm}$ deep by $15.5 \pm 0.5\text{cm}$ wide. The bottom edge of the pocket shall have 2.5cm $\pm 0.5\text{cm}$ blunted corners. The pocket shall be positioned 7cm down from the top of waistband, 3.5cm from the side seam and attached by two rows of stitching, with a nominal gauge of 5mm. The top of the pocket shall have a buttonhole centred laterally and a clear 1cm down from the top. A button shall be sewn with a reinforcing patch of self material. The top corners of the pocket opening shall be securely machine or bar tacked. **[Essential]**
- 2.6.2.7 **Thigh Pockets.** The trousers shall have two thigh pockets with welts and a concealed slide fastener closure. The pockets shall be attached with edge stitching. The pockets shall have a bellow located at the back edge, the bellow shall take in 6cm of material and both folds shall have a row of edge stitching. The pockets shall be placed symmetrically about the side seam and with the pocket opening level with the crutch line, (ie the distance from the top of the waistband to the pocket opening remains equal to the rise). Each pocket shall measure $25\text{cm} \pm 0.5\text{cm}$ wide by $26\text{cm} \pm 0.5\text{cm}$ long. The top of the pocket shall have a 3cm welt attached by two rows of stitching with a nominal gauge of 5mm. The pocket shall close by means of a 23cm slide fastener. One stringer shall be caught in with the welts two rows of stitching and the other stringer shall be attached to the pocket by two rows of stitching, with a nominal gauge of 5mm. The pocket opening shall be secured at each end by a bar tack. The slide fastener shall close towards the back and shall have end stops to prevent the slider from putting undue pressure on the pocket ends. **[Essential]**
- 2.6.2.8 **Bottoms.** The bottoms of the trousers shall have a 2.5cm turn-up. Two sewn eyelets 5mm diameter, shall be worked through the inside ply of the turn-up. The eyelets shall be positioned 1.5cm from the bottom, 2.5 cm apart and centred about the front. An elasticised cord (item "e" sub-paragraph 2.3.1) shall be threaded through the eyelets and barrel and left to protrude for

3cm on each side. The cord ends shall be heat sealed and terminated with a double knot.
[Essential]

- 2.7 **COLOURFASTNESS OF SEWING THREAD.** It is important that the colourfastness of the sewing thread be tested in accordance with the test methods detailed in AS 2001 and meet the following requirements.

TABLE 1

Fastness To	Test Method	Change in Sample	Staining of White Cloth
A	b	c	d
Light	*AS 2001.4.2	Min 6	-
Water	AS 2001.4.8	Min 4	Min 4
Washing	AS 2001.4.15	Min 4	Min 4
Dry Cleaning	AS 2001.4.16	Min 4	Min 4
Perspiration	AS 2001.4.17	Min 4	Min 4

Note: AS 2001.4.2 is the official test method, but for convenience in obtaining results quickly, Method AS 2001.4.21 may be used. [Essential]

- 2.8 **COLOURFASTNESS OF LABEL.** It is important that the colourfastness of the label be tested in accordance with the detailed test method. [Essential]
- 2.8.1 **Test Method.** Labels shall be tested in accordance with AS 2001.4.15 Colourfastness to Washing (modified): Temperature: 60degC, Time: 10 hours with 10 Stainless Steel Ball Bearings, Solution 4. [Essential]
- 2.8.2 **Criteria.** Acceptable criteria for Test Method AS 2001.4.15 (modified) shall be, Colour Change Min 4, Staining of Cotton Min 4, Staining of Nylon Min 4, Label must remain intact, Print must be legible, Logo (if present) must remain clear. [Essential]
- 2.9 **MARKING**
- 2.9.1 **Labels.** Each coat and pair of trousers shall have a label attached carrying the following information indelibly printed or woven in letters and figures 3mm high. [Essential]

Manufacturer's Name or Approved monogram
 Manufacturer
 Year of manufacture
 The symbol "↑"
 NATO Stock Number
 Size.....
 Name.....
 Service Number.....
 Laundry Instructions

Example:

ATEA Clothing Co
Victoria 1995
↑
SPECIFICATION ARMY (AUST) 6542
NSN 8400-66-130-0033
Size 100R
Name.....
Service Number.....
75% COTTON 25% POLYESTER
WARM MACHINE WASH 40°C
RINSE WELL, WARM IRON
DO NOT BLEACH, DO NOT STARCH
MAY BE TUMBLED DRY 40°C

- 2.9.1.1 **Coat Label.** The coat label shall be sewn around all edges and attached at the centre back, with the top of the label caught in with the collar seam. **[Essential]**
- 2.9.1.2 **Trouser Label.** The trousers label shall be sewn around all edges and attached to the right side pocket. **[Essential]**
- 2.10 **STITCHING AND SEAMS**
- 2.10.1 **Plain stitch.** All plain stitching shall be sewn using stitch type 301, (lockstitch), at a stitch density of 40±5 stitches per 10cm. **[Essential]**
- 2.10.2 **Chain stitching.** All chain stitching shall be sewn using stitch type 401, (chainstitch), at a stitch density of 35±5 stitches per 10cm. **[Essential]**
- Note:** Where stitch type 401, (chainstitch), is used any breaks are to be mended by over stitching using stitch type 301, (lockstitch). The over stitching shall extend at least 5cm over each end of the break. **[Essential]**
- 2.10.3 **Overlocking.** All overlocking shall be sewn using stitch type 503, or better, at a stitch density of 40±5 stitches per 10cm with a minimum stitch bight of 4mm. **[Expected]**
- 2.10.4 **Buttonholes**
- 2.10.4.1 **Eyelet Buttonholes.** All trouser buttonholes and the front closure buttonholes of the coat be the eyelet and taper bar type worked over gimp. The buttonholes shall have 11±1 stitches per cm with a minimum stitch bight of 2mm. **[Essential]**
- 2.10.4.2 **Shirt Buttonholes.** The buttonholes of the shoulder straps, the sleeve tabs and the coat's pocket flaps may be the straight bar type with a tack at each end, (shirt buttonholes). The buttonholes shall have 11±1 stitches per cm, with a minimum stitch bight of 2mm. The tack at each end shall have a minimum of 5 stitches. **[Essential]**
- 2.10.5 **BUTTONS.** Buttons shall be securely attached using a lockstitch and have not less than 6 stitches through each pair of holes. **[Essential]**
- 2.11 **FINISHING.** The coat and trousers shall be cleanly finished and all loose threads removed. All components shall be uniform in appearance. Particular attention is to be given to ensure that seams are securely sewn, free from defects in thread tension which may have a weakening effect and that all bartacks and machine tacks are securely sewn. All seams shall be free from gathers folds or twists. **[Essential]**

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2.12

INSPECTION. The finished items shall be visually inspected for defects in construction, materials and workmanship. Any deviation from this specification shall be considered a defect.
[Essential]

METHODS OF MEASUREMENT

COAT

1. **Chest.** With the coat buttoned and laying flat, measure across the coat, at the lower point of the sleeve attachment, (the hinder sleeve), from folded edge to folded edge and double. Tolerance + 1.5cm.
2. **Waist.** With the coat buttoned and laying flat, measure across the coat, at the narrowest point of the waist, from folded edge to folded edge and double. Tolerance + 1.5cm
3. **Back Width.** Measure across the back, from one sleeve seam to the other, 12cm down from the collar seam. Tolerance + 1cm.
4. **Back Length.** Measure along the centre back from collar seam to hem. Tolerance + 1cm.
5. **Sleeve Length.** Measure along the top of the sleeve from shoulder seam to bottom edge of the cuff. Tolerance + 1cm.
6. **Cuff Width.** Measure across the cuff from folded edge to folded edge and double. Tolerance + 0.5 cm.
7. **Bottom Width.** With the coat buttoned and laying flat, measure across the hem from folded edge to folded edge and double. Tolerance + 2cm.

TROUSERS

1. **Waist.** Measurement taken across trousers at bottom of waistband and doubled. Tolerance + 1cm.
2. **Seat.** With the trouser laying flat, measure across the trousers, from the top of the thigh pocket and doubled. Tolerance + 2cm.
3. **Outleg.** Measurement taken from the top of waistband, at the side seam to bottom of trousers. Tolerance + 1.5cm.
4. **Inleg.** Measurement taken from crotch seam to bottom along inleg seam. Tolerance + 1cm.
5. **Cuff.** Measurement taken from folded edge to folded edge at bottom of trousers and doubled. Tolerance + 0.5 cm.

SCHEDULE OF SIZES AND MEASUREMENTS
COAT

NATO STOCK NUMBER	SIZE AND CHEST OF WEARER	MEASUREMENTS OF FINISHED GARMENT						
		CHEST	WAIST	BACK WIDTH	BACK LENGTH	SLEEVE LENGTH	CUFF WIDTH	BOTTOM WIDTH
	Tolerance	+ 1.5 cm	+ 1.5 cm	+ 1 cm	+ 1 cm	+ 1 cm	+ 0.5 cm	+ 2 cm
8415-66-152-1015	80S	105	95	42.5	73	61	36	100
8415-66-152-1017	85S	110	100	44	73.5	61	36.5	105
8415-66-152-1019	90S	115	105	45.5	74	61	37	110
8415-66-152-1021	95S	120	110	47	74.5	61	37.5	115
8415-66-152-1024	100S	125	115	48.5	75	61	38	120
8415-66-152-1027	105S	130	120	50	75.5	61	38.5	125
8415-66-152-1030	110S	135	125	51.5	76	61	39	130
8415-66-152-1033	115S	140	130	53	76.5	61	39.5	135
8415-66-152-1016	80R	105	95	42.5	77	65	36	100
8415-66-152-1018	85R	110	100	44	77.5	65	36.5	105
8415-66-152-1020	90R	115	105	45.5	78	65	37	110
8415-66-152-1022	95R	120	110	47	78.5	65	37.5	115
8415-66-152-1025	100R	125	115	48.5	79	65	38	120
8415-66-152-1028	105R	130	120	50	79.5	65	38.5	125
8415-66-152-1031	110R	135	125	51.5	80	65	39	130
8415-66-152-1034	115R	140	130	53	80.5	65	39.5	135
8415-66-152-1036	120R	145	135	54.5	81	65	40	140
8415-66-152-1038	125R	150	140	56	81.5	65	40.5	145
8415-66-152-1040	130R	155	145	57.5	82	65	41	150
8415-66-152-1023	95L	120	110	47	82.5	69	37.5	115
8415-66-152-1026	100L	125	115	48.5	83	69	38	120
8415-66-152-1029	105L	130	120	50	83.5	69	38.5	125
8415-66-152-1032	110L	135	125	51.5	84	69	39	130
8415-66-152-1035	115L	140	130	53	84.5	69	39.5	135
8415-66-152-1037	120L	145	135	54.5	85	69	40	140
8415-66-152-1039	125L	150	140	56	85.5	69	40.5	145
8415-66-152-1041	MADE TO MEASURE							

Note: All measurements are in centimetres

**SCHEDULE OF SIZES AND MEASUREMENTS
TROUSERS**

NATO STOCK NUMBER	SIZE AND WAIST OF WEARER	MEASUREMENTS OF FINISHED GARMENT				
		WAIST	SEAT	OUTLEG	INLEG	CUFF
	TOLERANCE	+ 1 CM	+ 2 CM	+ 1.5 CM	+ 1 CM	+ 0.5 CM
8415-66-152-1042	65S	65	95	98.5	74	46
8415-66-152-1045	70S	70	100	99	74	46
8415-66-152-1048	75S	75	105	99.5	74	47
8415-66-152-1051	80S	80	110	100	74	47
8415-66-152-1053	85S	85	115	100.5	74	48
8415-66-152-1056	90S	90	120	101	74	48
8415-66-152-1059	95S	95	125	101.5	74	49
8415-66-152-1062	100S	100	130	102	74	49
8415-66-152-1065	105S	105	135	102.5	74	50
8415-66-152-1068	110S	110	140	103	74	50
8415-66-152-1071	115S	115	145	103.5	74	50

8415-66-152-1043	65R	65	95	105.5	80	47
8415-66-152-1046	70R	70	100	106	80	47
8415-66-152-1049	75R	75	105	106.5	80	48
8415-66-152-1052	80R	80	110	107	80	48
8415-66-152-1054	85R	85	115	107.5	80	49
8415-66-152-1057	90R	90	120	108	80	49
8415-66-152-1060	95R	95	125	108.5	80	50
8415-66-152-1063	100R	100	130	109	80	50
8415-66-152-1066	105R	105	135	109.5	80	51
8415-66-152-1069	110R	110	140	110	80	51
8415-66-152-1072	115R	115	145	110.5	80	52
8415-66-152-1074	120R	120	150	111	80	52

8415-66-152-1044	65L	65	95	113.5	87	48
8415-66-152-1047	70L	70	100	114	87	48
8415-66-152-1050	75L	75	105	114.5	87	49
8415-66-152-1139	80L	80	110	115	87	49
8415-66-152-1055	85L	85	115	115.5	87	50
8415-66-152-1058	90L	90	120	116	87	50
8415-66-152-1061	95L	95	125	116.5	87	51
8415-66-152-1064	100L	100	130	117	87	51
8415-66-152-1067	105L	105	135	117.5	87	52
8415-66-152-1070	110L	110	140	118	87	52
8415-66-152-1073	115L	115	145	118.5	87	53
8415-66-152-1075	120L	120	150	119	87	53
8415-66-152-1076	MADE TO MEASURE					

Note: All measurements are in centimetres

SPECIFICATION DEF(AUST) APPROVAL

SPECIFICATION IDENTIFICATION

Specification Number: DEF(AUST) Army (ALIST) 6542
 Specification Title: Uniform Combat, Disruptive Pattern Printed
 Issue (when approved): 7
 Issue Date: June 2004

AUTHOR'S or REVISOR'S DECLARATION

Name:
 Contact Phone No: S-1-C
 Email Address:

The contents of the specification identified above are consistent with endorsed requirements for materiel capability which is acceptable to the ADF with respect to fitness for service, safety and environmental compliance.

Signature: S-1-C
 Date:

REVIEWER'S DECLARATION

Name:
 Contact Phone No: S-1-C
 Email Address:

I have reviewed the specification identified above and am satisfied that it meets its intended purpose and the requirements of the LSD Quality System.

Signature: S-1-C
 Date:

DAAR'S DECLARATION

Name:
 Appointment Reference:
 Contact Phone No: S-1-C
 Email Address:

Processes consistent with the Army Technical Regulatory Framework have been undertaken to create or amend and review the specification identified above.

Signature: S-1-C
 Date:

PROCUREMENT AUTHORITY'S DECLARATION

Name: S-1-C
 Title: Program Manager
 Contact Phone No:
 Email Address: S-1-C

The specification identified above is approved for developmental/production purposes as described in Contract No.

Signature: S-1-C
 Date:

SPECIFICATION DEF(AUST) APPROVAL

SPECIFICATION IDENTIFICATION

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Specification Title:	Uniform Combat Disruptive Pattern Printed
Issue (when approved):	7
Issue Date:	June 2004

AUTHOR'S or REVISOR'S DECLARATION

Name: _____
Contact Phone No: 3-1-C _____
Email Address: _____

The contents of the specification identified above are consistent with endorsed requirements for materiel capability which is acceptable to the ADF with respect to fitness for service, safety and environmental compliance.

Signature:	
Date:	5-1-0

REVIEWER'S DECLARATION

Name: _____

Contact Phone No: S-1-C

Email Address: _____

I have reviewed the specification identified above and am satisfied that it meets its intended purpose and the requirements of the LSD Quality System.

Signature: _____
Date: _____ S-i-c

DAAR'S DECLARATION

Name:	
Appointment Reference:	
Contact Phone No:	S-1-C
Email Address:	

Processes consistent with the Army Technical Regulatory Framework have been undertaken to create or amend and review the specification identified above.

Signature:	S-I-C
Date:	

PROCUREMENT AUTHORITY'S DECLARATION

Name:	S-1-C
Title:	Program Manager
Contact Phone No:	
Email Address:	S-1-C

The specification identified above is approved for developmental/production purposes as described in Contract No.

Signature: _____
Date: _____

S-1-C



AUSTRALIAN GOVERNMENT

AUSTRALIAN DEFENCE STANDARD

DEF(AUST)10760 / Issue 1

Dated 18 December 2009

ORIGINAL DOCUMENT

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**CLOTH, COTTON/POLYESTER,
OXFORD & TWILL WEAVES,
DISRUPTIVE PATTERN**

**SPECIFICATION FOR CONTRACT
CBT/CLOSP0/09/02**

*

PUBLISHED UNDER AUTHORITY
OF DEPARTMENT OF DEFENCE

USAGE: Maritime, Land, Air

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Executive Authority:	DCLOSP0	Approved: 18 December 2009

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AMENDMENT LIST

AMENDMENT		EFFECTED	
NO	DATED	SIGNATURE	DATE

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LIST OF ANNEXES

- Annex A NSN for Cloth and Print/Colours
 Annex B Acronyms

1. SCOPE

1.1. Identification

- 1.1.1. This document specifies the requirements for the Cloth, Cotton/Polyester, Oxford and Twill Weaves, Disruptive Pattern to be developed to satisfy a capability need identified by the Department of Defence.

1.2. System Overview

- 1.2.1. The Cloth, Cotton/Polyester, Oxford and Twill Weaves, Disruptive Pattern will be used in the manufacture of ADF Combat Clothing and field equipment.

Item 1: Cloth, Oxford, Cotton/Polyester, Print Design, Disruptive Pattern Printed (DPP), Near Infrared (NIR)

Item 2: Cloth, Oxford, Cotton/Polyester, Disruptive Pattern Printed Colourways and Plain Dyed Colours

Item 3: Cloth, Twill, Cotton/Polyester, Disruptive Pattern Printed, Near Infrared

Item 4: Cloth, Twill, Cotton/Polyester, Disruptive Pattern Printed Colourways and Plain Dyed Colours

NOTE: Refer to Annex A for NSN.

1.3. Document Overview

- 1.3.1. This specification details the minimum acceptable standards of functional and performance requirements for the Cloth, Cotton/Polyester, Oxford and Twill Weaves, Disruptive Pattern and the means by which satisfaction of those requirements will be verified for Contract CBT/CLOSP0/09/02. This contract specification is based upon tender specification DEF(AUST)8188 ISSUE 2, used for RFT CBT/CLOSP0/09/02.

- 1.3.2. No part of this document is classified for security purposes.

2. DEFINITIONS AND REFERENCED DOCUMENTS

2.1. Definitions

- 2.1.1. The Australian Macquarie Dictionary fourth edition, 2005 is the reference source for all terms used in this specification, except for those defined in this Definitions section.

- 2.1.2. **Able, capable.** Requirements that include the adjectives able or capable or adjectives ending in -able or -ible shall be interpreted as being references to extant capabilities of the equipment or system without any form of future modification or enhancement, and all means and facilities to enable the satisfaction of those requirements shall be provided with and considered to be part of the equipment or system.

- 2.1.3. **Contract Authority.** The authority nominated in the Contract as the authority responsible for all matters related to the procurement of the items specified in the document.

- 2.1.4. **Material Standard.** Material Standard (if applicable) are provided as a guide only for style, general appearance, handle, finish, workmanship and any other properties not defined in this specification. The specification must be strictly adhered to in all respects for the design characteristics, dimensions and all related detail. Should the specification and material standard be at a variance, the specification shall prevail to the extent of any inconsistency.

- 2.1.5. **Terms for Defects.** Terms for defects of woven & knitted textile piece goods shall be in accordance ASTM D3990.

- 2.1.6. **Colour Standard.** A reference sample authorised by the Design Authority and supplied to the contractor as a guide for colour matching purposes.

2.2. **Referenced Documents**

2.2.1 The following documents form a part of this specification to the extent specified herein.

2.2.2. The latest issue of the following documents at the issue date of this specification shall apply:

Document Number	Title
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Defence Standards

DEF(AUST)8746	Print Design, Disruptive Pattern ¹
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Standards Australia

AS 1680.2	Interior Lighting – Recommendations for specific tasks and interiors ²
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AS 2001	Methods of Test for Textiles ²
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AS ISO/IEC 17025	General requirements for the competence of testing and calibration laboratories ²
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AS/NZS 1580.601.1	Paints and Related Materials – Methods of Test ²
-------------------	---

AS/NZS 1957	Textiles – Care Labelling ²
-------------	--

AS/NZS 2450	Textiles – Natural and Man Made fibres – Generic Names ²
-------------	---

AS/NZS 2621	Guide to selection of correct care labelling instructions ²
-------------	--

AS/NZS 2622	Textile Products – Fibre Content Labelling ²
-------------	---

International Standards

ISO 12945	Fabric propensity to surface fuzzing and pilling ²
-----------	---

AATCC Method 79	Absorbency of Bleached Textiles ²
-----------------	--

ASTM D 3990	Standard Terminology Relating to Fabric Defects ²
-------------	--

2.2.3. **Order of precedence.** In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. However, nothing in this document supersedes applicable laws and regulations unless a specific exemption has been obtained.

¹ Copies of this document may be obtained from the Contract Officer.

² Copies of International and Australian Standards may be obtained from:

Publication Distributor - SAI Global

Office Hours 8am to 5pm AEST

Telephone: 131 242

Facsimile: 1300 65 49 49

Overseas Telephone calls +61 2 8206 6010

Overseas Faxes +61 2 8206 6020

Email: sales@sai-global.com

Web shop: <http://www.saiglobal.com/shop>

3. REQUIREMENTS

- 3.1. Requirements are detailed in Table 1 – Requirements Verification and Tenderer's Response.
- 3.2. Marking
- 3.2.1. **Label.** Each fabric roll shall have a label, as defined at AS/NZS 2622, with the following information.
- Manufacturer's Name or Approved Logo;
 - State/Country of Manufacture;
 - Month/Year of Manufacture;
 - Serial/Order number;
 - The Symbol "↑" in accordance with DEF(AUST)5047;
 - NATO Stock Number;
 - Fibre Content IAW AS/NZS 2622 and AS/NZS 2450; and
 - Care Instructions (Care label to be in accordance with the latest edition of AS/NZS 1957 and with reference to AS/NZS 2450, AS/NZS 2621 and AS/NZS 2622).

4. REQUIREMENTS VERIFICATION

- 4.1. The means of verification of each requirement shall be by testing, demonstration, analysis, inspection and other special qualification methods.
- 4.1.1. **Test.** A test is the operation of the system, or a part of the system, or equipment using instrumentation or other special test equipment to collect data for later evaluation. The Commonwealth often collects verification test data through the performance of trials. Trials shall be conducted in accordance with the appropriate Test and Evaluation Management Plan.
- 4.1.2. **Demonstration.** A demonstration is the operation of the system, or a part of the system, or equipment, that relies on observable functional operation not requiring the use of instrumentation, special test equipment, or subsequent analysis.
- 4.1.3. **Analysis.** Analysis is the processing of accumulated data obtained from other qualification methods or calculations. Examples of analysis include reduction, interpolation, or extrapolation of test results.
- 4.1.4. **Inspection.** Inspection is the visual examination of system components, documentation etc.
- 4.1.5. **Other.** Other means of verification may include the use of special tools or facilities, application of special techniques, procedures, acceptance limits, use of standard samples, pre-production or periodic production samples, pilot models, pilot lots or use of jury panels.
- 4.2. The means of verification of each individual requirement is indicated in Table 1 – Requirements Verification and Tenderers Response. A cross in the table column headed by the initial letter of Test, Demonstration, Analysis, Inspection or Other indicates that the requirement in that row will be verified by the method indicated; reference to more details of the method of verification being in the associated column.

5. REQUIREMENTS TRACEABILITY

Reserved.

6. ACCEPTANCE OF SUPPLIES

6.1. Acceptance

6.1.1. Where supplies are purchased from the manufacturer by a party other than the Commonwealth, packaging, delivery, inspection and acceptance of the supplies is a matter between those parties.

6.1.2. Where supplies are being purchased by the Commonwealth the following clauses number 6.2 to 6.8 shall apply.

6.2. Fabric Width

6.2.1. The minimum width (excluding Selvage's) of fabric shall be 147 cm.

6.3. Testing

6.3.1. Testing and reports shall be current, traceable to the fabric that is offered and carried out by a NATA or Internationally equivalent accredited laboratory. Some of the national laboratory accrediting bodies providing accreditation to AS ISO/IEC 17025 standard include NATA (Australia), CNAS (China), HKAS (Hong Kong, China), IANZ (New Zealand), UKAS (United Kingdom) and A2LA (United States of America). All reports shall be in English.

6.3.2. Initial testing of the cloth shall occur at pre-production sample stage and shall be followed by a testing frequency as determined under contract.

6.4. Inspection and Acceptance

6.4.1. **Visual Examination of Cloth.** The cloth shall be visual examined by manufacturer/Contractor under the minimum conditions specified in AS 1680.2.0 normal viewing distance shall be one metre. Defects shall be marked by the insertion of a red marker in the edge opposite the defect with ends projecting at least 25 mm. A length of 0.1 metre shall be deducted for every defect in each roll accepted. Where a defect continues for more than 0.1 metre in the warp direction, a blue marker shall be inserted at each end of the defect and the deduction shall be the distance between these threads.

6.4.2. **Acceptance Quality.** Any roll of cloth containing more than one defect (as stated in ASTM D 3990) in each 10 linear metres will be rejected by commonwealth. All accepted pieces shall be permanently marked on the inspection ticket by manufacturer/Contractor. Any piece of cloth rejected shall be suitably marked by manufacturer/Contractor. The minimum length of each roll supplied by contractor shall be 50 metre. No roll shall contain more than two pieces neither of which shall be less than 10 metre. The length shall be measured by an acceptable commercial method.

6.4.3. **Inspection by Commonwealth.** The Commonwealth may perform visual or other inspection of the supplies.

6.5. Finishing

6.5.1. **General.** The finished cloth shall be delivered dry, clean and free from objectionable odour.

6.5.2. **Rolling.** The cloth shall be neatly rolled full width around a firm tube of non-spiral construction with an internal diameter of approximately 40 mm, and a wall thickness of approximately 5 mm. Alternatively PVC tubing of similar external dimension and wall thickness of 2 mm may be used.

6.5.3. Each roll shall be over-wrapped with a flexible waterproofed barrier material.

6.5.4. The barrier material shall be sealed on either end of the roll with a general purpose pressure sensitive adhesive packaging tape.

6.6. **Labelling and Marking**

6.6.1. Labelling. Each piece shall have a piece number and length indelibly marked on the head and the manufacturer's name or Trade Mark on the head and tail and shall have an inspection ticket showing:

- a. Defence Stock Number;
- b. Manufacturer's Name or Trade Mark;
- c. Length;
- d. Batch number;
- e. Piece number;
- f. Specification Number;
- g. Month and Year of Manufacture;
- h. Fibre Content in accordance with AS/NZS 2622, Method A and AS/NZS 2450; and
- i. Care Instructions in accordance with AS/NZS 1957 and with reference to AS/NZS 2621, AS/NZS 2622.

6.7. **Marking and Identification of Packages**

6.7.1. **Primary packages (individual rolls) shall have the following markings:**

- a. Defence Stock Number
- b. Month/year of manufacture
- c. Manufacturer's name or Trade Mark
- d. Quantity
- e. Defence Order number

6.8. **Additional Delivery Requirements**

6.8.1. Additional/specific delivery, Quality Assurance and Palletisation requirements shall be as specified in the tender/contract document.

7. **NOTES**

7.1. **Packaging for Delivery**

7.2. Requirements for packaging for delivery are detailed in the procurement contract.

Para Ref	Abbreviated Requirements	T	D	A	I	O	Verification Details (or References)
3.8.4	<p>Colourfastness to dry cleaning (perchloroethylene and white spirit) shall be:</p> <p>Change in Specimen: 4 min</p> <p>Staining of Standard Material: 4 min</p> <p>All items of this specification.</p> <p>Change in NIR reflectance +/- 5%</p> <p>Items 1 and 3 of this specification.</p>			x			Analysis of manufacturer's product data and test results IAW AS 2001.4.16.
3.8.5	<p>Colourfastness to washing shall be:</p> <p>Change in Specimen: 4 min</p> <p>Staining of Standard Material: 4 min</p> <p>All items of this specification.</p> <p>Change in NIR reflectance +/- 5%</p> <p>Items 1 and 3 of this specification.</p>			x			Analysis of manufacturer's product data and test results IAW AS 2001.1.4.15.E.
3.8.6	<p>Colourfastness to rubbing shall be:</p> <p>Dry - Staining of Standard Material: 4 min</p> <p>Wet - Staining of Standard Material: 3 - 4 min</p> <p>All items of this specification.</p> <p>Change in NIR reflectance +/- 5%</p> <p>Items 1 and 3 of this specification.</p>			x			Analysis of manufacturer's product data and test results IAW AS 2001.4.3.
3.9	Dimensional Stability After Laundering						

Attachment to Defence question 3(a)

6.6. Labelling and Marking

6.6.1. Labelling. Each piece shall have a piece number and length indelibly marked on the head and the manufacturer's name or Trade Mark on the head and tail and shall have an inspection ticket showing:

- a. Defence Stock Number;
- b. Manufacturer's Name or Trade Mark;
- c. Length;
- d. Batch number;
- e. Piece number;
- f. Specification Number;
- g. Month and Year of Manufacture;
- h. Fibre Content in accordance with AS/NZS 2622, Method A and AS/NZS 2450; and
- i. Care Instructions in accordance with AS/NZS 1957 and with reference to AS/NZS 2621, AS/NZS 2622.

6.7. Marking and Identification of Packages

6.7.1. Primary packages (individual rolls) shall have the following markings:

- a. Defence Stock Number
- b. Month/year of manufacture
- c. Manufacturer's name or Trade Mark
- d. Quantity
- e. Defence Order number

6.8. Additional Delivery Requirements

6.8.1. Additional/specific delivery, Quality Assurance and Palletisation requirements shall be as specified in the tender/contract document.

7. NOTES**7.1. Packaging for Delivery**

7.2. Requirements for packaging for delivery are detailed in the procurement contract.

Table 1 – Requirements Verification and Tenderer's Response

Para Ref	Abbreviated Requirements	T	D	A	I	O	Verification Details (or References)
3.2	Marking						
3.2.1	Label				x		Visual inspection.
3.3	Materials						
3.3.1	The finished cloths are woven from blended yarns consisting of cotton and polyester. All items of this specification.						
3.4	Construction						
3.4.1	The structure of the cloth shall be: Item 1 and 2 - Oxford weave Item 3 and 4 - 3/1 Twill weave				x		Visual inspection of finished cloth.
3.4.2	The mass of the finished cloth shall be: Item 1 and 2 - min 155 g/m ² , max 175 g/m ² Item 3 and 4 - min 230 g/m ² , max 255 g/m ²			x			Analysis of manufacturer's product data and test results IAW AS 2001.2.13.
3.4.3	The number of threads per unit length shall be: Item 1 and 2 - warp 43 ± 1, weft 17 ± 1 Item 3 and 4 - warp 40 ± 1, weft 18 ± 1			x	x		Visual examination of finished cloth and analysis of manufacturer's product data and test results IAW AS 2001.2.5.
3.4.4	Fibre Content of the cloth shall be 75 ± 3% Cotton and 25 ± 3% Polyester. All items of this specification.			x			Analysis of manufacturer's product data and test results IAW AS 2001.7.

Para Ref	Abbreviated Requirements	T	D	A	I	O	Verification Details (or References)
3.5	Colour and Print						
3.5.1	Visual assessment of the Colours and Print Design of the finished cloth shall meet the requirements as specified in DEF(AUST)8746.			x	x		Visual examination of tender or pre-production sample and analysis IAW DEF(AUST)8746.
	For all DPP items of this specification.						
3.5.1.1	The Colours and Print Design are specified in DEF(AUST)8746.						
3.5.2	There may be a requirement for a single colour cloth. The single colour may be a light, medium or dark shade or black. Details of the requirement will be outlined in the statement of work if required.						
3.6	Near Infrared (NIR)						
3.6.1	The Near Infrared Reflectance shall meet the requirements as specified in DEF(AUST)8746. Item 1 and 3 of this specification only IAW DEF(AUST)8746.			x			Analysis of manufacturer's test results IAW DEF(AUST)8746.
3.7	Strength						
3.7.1	Breaking Force of the cloth shall be: Item 1 and 2 – warp ≥840, weft ≥440 Item 3 and 4 – warp ≥1050, weft ≥650 Breaking force (mean) N/50mm			x			Analysis of manufacturer's product data and test results IAW Annex B, IAW AS 2001.2.3.1. (cut strip method).

Para Ref	Abbreviated Requirements	T	D	A	I	O	Verification Details (or References)
3.7.2	Tearing Force of the cloth shall be: Item 1 and 2 – warp ≥ 25 , weft ≥ 20 Item 3 and 4 – warp ≥ 40 , weft ≥ 40 Tearing force (mean) N			x			Analysis of manufacturer's product data and test results IAW Annex B, IAW AS 2001.2.10 (Wing rip method).
3.8	Colourfastness for Plain Dyed Cloth, Base Cloth and Printed Cloth						
3.8.1	Colourfastness to light (artificial) shall be 6 minimum. All items of this specification.			x			Analysis of manufacturer's product data and test results IAW AS 2001.4.21 Blue Wool references.
3.8.2	Colourfastness to water shall be: Change in Specimen: 4 min Staining of Standard Material: 4 min All items of this specification. Change in NIR reflectance +/- 5% Items 1 and 3 of this specification.			x			Analysis of manufacturer's product data and test results IAW AS 2001.4.E01.
3.8.3	Colourfastness to perspiration (acid and alkaline) shall be: Change in Specimen: 4 min Staining of Standard Material: 4 min All items of this specification. Change in NIR reflectance +/- 5% Items 1 and 3 of this specification.			x			Analysis of manufacturer's product data and test results IAW AS 2001.4.E04.

Para Ref	Abbreviated Requirements	T	D	A	I	O	Verification Details (or References)
3.8.4	<p>Colourfastness to dry cleaning (perchloroethylene and white spirit) shall be:</p> <p>Change in Specimen: 4 min</p> <p>Staining of Standard Material: 4 min</p> <p>All items of this specification.</p> <p>Change in NIR reflectance +/- 5%</p> <p>Items 1 and 3 of this specification.</p>		x				Analysis of manufacturer's product data and test results IAW AS 2001.4.16.
3.8.5	<p>Colourfastness to washing shall be:</p> <p>Change in Specimen: 4 min</p> <p>Staining of Standard Material: 4 min</p> <p>All items of this specification.</p> <p>Change in NIR reflectance +/- 5%</p> <p>Items 1 and 3 of this specification.</p>		x				Analysis of manufacturer's product data and test results IAW AS 2001.1.4.15.E.
3.8.6	<p>Colourfastness to rubbing shall be:</p> <p>Dry - Staining of Standard Material: 4 min</p> <p>Wet - Staining of Standard Material: 3 - 4 min</p> <p>All items of this specification.</p> <p>Change in NIR reflectance +/- 5%</p> <p>Items 1 and 3 of this specification.</p>		x				Analysis of manufacturer's product data and test results IAW AS 2001.4.3.
3.9	Dimensional Stability After Laundering						

Para Ref	Abbreviated Requirements	T	D	A	I	O	Verification Details (or References)
3.9.1	Dimensional change after washing shall not exceed $\pm 3\%$ in either direction. All items of this specification.			x			Analysis of manufacturer's product data and test results IAW AS 2001.5.4 Procedure 2A, drying procedure E tumble dry (3x).
3.10	Wear / Abrasion						
3.10.1	The Pilling of the cloth shall be performed after washing (according to paragraph 3.7.1: Dimensional change after washing) and shall be min 4-5 after 5 hours and min 3-4 after 10 hours. All items of this specification.			x			Analysis of manufacturer's product data and test results IAW Washing: AS 2001.5.4 Procedure 2A, drying procedure E tumble dry (3x). Pilling: ISO 12945- Part 1
3.11	Comfort						
3.11.1	Absorbency / Wickability of the cloth shall be performed after washing (according to 3.7.1: Dimensional change after washing) and shall not exceed 1 second when tested on the back side of the cloth for each individual print colour.			x			Analysis of manufacturer's product data and test results IAW AATCC Method 79 + AS 2001.5.4 Procedure 2A, drying procedure E tumble dry (3 X).
3.12	Other						
3.12.1	The pH value of aqueous extract of the sample shall be not less than 5.0 and no more than 8.0. All items of this specification.			x			Analysis of manufacturer's product data and test results IAW AS 2001.3.1 – Test B

ANNEX A

NSN for CLOTH & PRINT/COLOUR

COLOUR / PRINT	NSN
Item 1: Cloth, Oxford, Cotton/Polyester, DPP. NIR	
a. DPP	8305-66-152-1013
Item 2: Cloth, Oxford, Cotton/Polyester, DP Colourways and Plain Colours	
a. DPDP	8305-66-149-0138
Item 3: Cloth, Twill, Cotton/Polyester, DPP. NIR	
a. DPP	8305-66-152-1014
Item 4: Cloth, Twill, Cotton/Polyester, DP Colourways and Plain Colours	
a. DPDP	8305-66-149-0139

ANNEX B

ACRONYMS

A2LA	American Association for Laboratory Accreditation
ADF	Australian Defence Force
AFP	Australian Federal Police
AS	Australian Standard
ASTM	American Society for Testing and Materials
CLOSPO	Clothing System Program Office
CNAS	China National Accreditation Service for Conformity Assessment
DAAR	Design Acceptance Authority Representative
DCLOSPO	Director Clothing System Program Office
DPP	Disruptive Pattern Printed
DPDP	Disruptive Pattern Desert Printed
DPEP	Disruptive Pattern Enemy Printed
DPNP	Disruptive Pattern Naval Printed
HKAS	Hong Kong Accreditation Service
IAW	In Accordance With
IANZ	International Accreditation New Zealand
ISO	International Organisation of Standardisation
NATA	National Association of testing Authorities Australia
NATO	North Atlantic Treaty Organisation
NSN	NATO Stock Number
NIR	Near Infrared
NSC	NATO Supply Classification
TA	Technical Advisor
TBA	To be Advised
UKAS	United Kingdom Accreditation Service
UN	United Nations

DOCUMENT IMPROVEMENT PROPOSAL
DEF(AUST)10760 – CLOTH, COTTON/POLYESTER, OXFORD AND TWILL
WEAVES, DISRUPTIVE PATTERN
SPECIFICATON FOR CONTRACT

The purpose of this form is to solicit comments, which will assist in maintaining the document named above as both practical and realistic. When completed, the form and any additional papers should be forwarded to the Sponsoring Appointment named in this document or to:

Assistant Program Coordinator
Army Standardisation
Land Engineering Agency
3rd Floor, Defence Plaza Melbourne
661 Bourke Street
MELBOURNE VIC 3000

NB Comments submitted do not constitute or imply authorisation to waive any requirement of the document or to amend contractual requirements.

1. Has any part of this document created problems or required interpretation in use? State paragraph no(s) and any rewording suggested.

2. Has any new technology rendered any process obsolete? Suggestions supported by examples are welcome where the new process/hardware has proved satisfactory.

3. Comments on any requirements considered to be too rigid/too expensive.

4. Remarks (attach any relevant data that may be of use in improving this document).

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AUSTRALIAN GOVERNMENT

AUSTRALIAN DEFENCE STANDARD

DEF(AUST)10759 / Issue 1

Dated 18 December 2009

ORIGINAL DOCUMENT

*

**UNIFORM, EXPLOSIVE ORDNANCE
DISPOSAL & PETROLEUM OPERATOR
CREWS**

SPECIFICATION FOR CONTRACT

CBT/CLOSP0/09/02

*

PUBLISHED UNDER AUTHORITY
OF DEPARTMENT OF DEFENCE

USAGE: Maritime, Land, Air

NSC: 8415

DEF(AUST)10759 / Issue 1

DOCUMENT MANAGEMENT INFORMATION

Ownership and responsibility for approval and acceptance of this specification is detailed below.

Sponsoring Defence Group:	Defence Materiel Organisation	
Sponsoring Organisation:	Land Systems Division	
Sponsoring Appointment:	Director Clothing Systems Program Office	
Specification Author:	TA CLOSP0	Approved: 26 November 2009
Approval Authority:	DAAR CLOSP0	Approved: 17 December 2009
Executive Authority:	DCLOSP0	Approved: 18 December 2009

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AMENDMENT LIST

AMENDMENT		EFFECTED	
NO	DATED	SIGNATURES	DATE

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Annex E	Method of Measurement
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1. **SCOPE**

1.1. **Identification**

1.1.1. This document specifies requirements for the Uniform, Explosive Ordnance Disposal (EOD) and Petroleum Operators (PET OPS) Crews to be procured to satisfy a capability need identified by the Department of Defence.

1.2. **System Overview**

1.2.1. The Uniform, EOD & PET OPS Crews is to provide a two piece field uniform for use by ADF personnel. The cloth for the EOD and PET OPS uniforms shall be flame retardant and maintain its flame retardant properties after laundering.

1.2.2. It is anticipated that the Uniform, EOD & PET OPS Crews system capability will be required when the Army, Navy & Air Force is deployed in Australia and overseas.

1.2.3. This specification covers the requirements for the materials and manufacture of:

Table 1

EOD & PET OPS Crew – Cloth, Cotton, FR Treated		
COLOUR/PRINT	NSN	
	Item 1 - Coat	Item 2 - Trousers
DPCU	Refer Annex B	Refer Annex D

1.3. **Document Overview**

1.3.1. This specification details the minimum acceptable standards of functional and performance requirements for Uniform, EOD & PET OPS Crews and the means by which satisfaction of those requirements will be verified for CBT/CLOSP0/09/02. This specification is based upon tender specification DEF(AUST)8913 Issue 1, used for RFT/CLOSP0 09/02.

1.3.2. No part of this document is classified for security purposes.

2. DEFINITIONS AND REFERENCED DOCUMENTS

2.1. Definitions

- 2.1.1. The Australian Macquarie Dictionary fourth edition, 2005 is the reference source for all terms used in this specification, except for those defined in this Definitions section.
- 2.1.2. **Able, capable.** Requirements that include the adjectives able to capable or adjectives ending in -able or -ible shall be interpreted as being references to extant capabilities of the equipment or system without any form of future modification or enhancement, and all means and facilities to enable the satisfaction of those requirements shall be provided with and considered to be part of the equipment or system.
- 2.1.3. **Material Standard.** Material Standard (if applicable) are provided as a guide only for style, general appearance, handle, finish, workmanship and any other properties not defined in this specification. The specification must be strictly adhered to in all respects for the design characteristics, dimensions and all related detail. Should the specification and material standard be at a variance, the specification shall prevail to the extent of any inconsistency.
- 2.1.4. **Design Authority.** The authority nominated in the Contract as the authority responsible for all matters relation to the design of the items specified by this document.
- 2.1.5. **Contact Officer.** The person nominated in the tender document as the authority responsible for all matters related to the procurement.
- 2.1.6. **Terms for Defects.** Terms for defects of woven & knitted textile piece goods shall be in accordance with AS 1083.
- 2.1.7. **Line/Ligne.** Line or Ligne is the term used to denote the diameter of the button. One Line or Ligne equals 0.63 mm.
- 2.1.8. **Back Tacking or Machine Tacking.** A back tack or machine tack shall consist of four stiches forward and four stiches back excluding the initial attachment stitching.
- 2.1.9. **Body Armour.** Any of the common in-service armour defined in drawing series DE840320000 Body Armour, Fragmentation/Small Arms Protective, or NSN: 8470-66-152-5109 indicative.
- 2.1.10. **Load Carrying Equipment.** Consisting of a Field Pack Large as defined by DE840780000 Combat Pack, 2002 and DE840170000 Field Pack Large, 1994; and Basic Webbing comprising Belt Individual Equipment ADE(m)234-1; Pad, Belt DE840030000 and associated pouches or DE841010000 Vest, Chest Webbing, Molle attachment System; DE841020000 Belt and Comforter, Molle Attachment and associated pouches.

2.1.11. **Referenced Documents**

2.1.12. The following documents form a part of this specification to the extent specified herein.

2.1.13. The latest issue of the following documents at the issue date of this specification shall apply:

Document Numbers Title

Defence Standards

DEF(AUST)1000	ADF Packaging Standard-Parts 5,11, 12 & 14 ¹
DEF(AUST)5047	Identification Marking of Service Equipment ¹
ARMY(AUST)6744	Combat Helmet ¹
DEF(AUST)8196	Undergarments, Extreme Cold Weather ¹
DEF(AUST)10761	Cloth, Cotton, Twill Weave, Fire retardant Treated and Untreated ¹

Defence Drawings

ADE(M)234-1	Belt, Individual Equipment ¹
DE840320000	Body Armour, Fragmentation/Small Arms Protective ¹
DE841010000	Vest, Chest Webbing ¹
DE841020000	Belt and Comforter, Mole Attachment ¹
DE840780000	Combat Pack, 2002 ¹
DE840170000	Field Pack, Large, 1994 ¹
DE840030000	Pad, Belt ¹

Australian Standards

AS 2001	Methods of Test for Textiles ²
AS 2332	Slide Fasteners ²
AS 2859	Textiles – Seam Types – Classification and Terminology ²
AS 2860	Textiles – Stitch Types – Classifications and Terminology ²
AS ISO/IEC 17025	General requirements for the Competence of Testing and Calibration Laboratories ²
AS/NZS 1957	Textiles – Care Labelling ²
AS/NZS 2392	Textiles – Labelling of Clothing, Household Textiles and Furnishings ²
AS/NZS 2450	Textiles – Natural and Man Made Fibres – Generic Names ²
AS/NZS 2621	Guide to the Selection of Correct Care Labelling Instructions ²
AS/NZS 2622	Textile Products – Fibre Content Labelling ²

International Standards

ASTM D 3990	Standard Terminology Relating to Fabric Defects ²
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¹ Copies of these documents may be obtained from the Contact Officer.

² Copies of International and Australian Standard may be obtained from:

Publication Distributor - SAI Global

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Verification Colour and Material Standards

MS 8415-0171 Uniform, EOD & PET OPS Crews - Coat ¹

MS 8415-0172 Uniform, EOD & PET OPS Crews – Trousers ¹

- 2.1.14. **Order of precedence.** In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. However, nothing in this document supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. **REQUIREMENTS**3.1. **Design Concept**

3.1.1. **General.** The Uniform, EOD & PET OPS Crews shall provide an operational uniform for wear by ADF personnel. The cloth for the EOD and PET OPS uniforms shall be flame retardant (FR) and maintain its flame retardant properties after laundering.

Item 1: Coat, Cotton, 2 x 1 Twill, FR Treated, EOD & PET OPS Crew

Item 2: Trousers, Cotton, 3 x 1 Twill, FR Treated, EOD & PET OPS Crew

Item 3: Reserved

Item 4: Reserved

3.1.2. **Design.** The Uniform shall incorporate the following design features:

Item 1: Uniform - Coat

- a. Front opening with slide fastener closure;
- b. One piece shirt style collar;
- c. Two breast pockets with bellows, flaps and closure;
- d. Tool holder loops on breast pocket;
- e. Shoulder straps and epaulettes; and
- f. Set in sleeves with adjustable cuff closure.

Item 2: Uniform - Trousers

- a. Waistband with adjustable straps;
- b. Two button closure on waist;
- c. Seven belt loops;
- d. Fly opening with slide fastener closure;
- e. Two angled pockets,
- f. Left thigh pocket with side and bottom bellows and slide fastener closure;
- g. Right thigh pocket with slide fastener closure;
- h. Right lower leg pocket with closure; and
- i. Plain cuff with eyelets.

3.2. **Materials**3.2.1. **Base Fabric**

Item 1: **Coat.** Cloth, Cotton, 2 x 1 Twill Weave, FR Treated shall be manufactured in accordance with DEF(AUST)10761 Item 1.

Item 2: **Trousers.** Cloth, Cotton, 3 x 1 Twill Weave, FR Treated shall be manufactured in accordance with DEF(AUST)10761 Item 2.

3.2.1.1. **Colour Resolution.** If any discrepancies arise with measured colour values, visual assessment will take precedence.

3.2.2. **Buttons**

- a. Buttons to be ligne 27, plastic, reversible and four hole; and
- b. To be of matching shade to the base fabric.

3.2.3. **Hook and Pile Tape.** The hook and pile tape shall measure 2.5 cm in width and match the base shade of the cloth.

3.2.4. **Slide Fastener**

- a. Slide fastener for the coat shall be medium weight, open end, self locking with end stops;
- b. Slide fastener for the Trousers shall be medium weight, self locking with end stops;
- c. Slide fasteners to comply with AS 2332; and
- d. Slide fasteners to be of matching shade to the base fabric.

3.2.5. **Threads**

3.2.5.1. **Threads for Item 1 and 2.** Threads applied to item 1 and 2 shall be Aramid or flame retardant threads.

- a. **Colour.** The colour shall be of a matching shade to the base fabric;
- b. **Colourfastness.** When tested in accordance with AS 2001.4, the colourfastness to light, water, washing, perspiration, rubbing and dry cleaning shall comply with the requirements of the base fabric of each item; and
- c. **Linear Density.** Sewing thread shall be 40 ± 5 tex. Overlocking thread shall be 25 ± 5 tex. Button and buttonhole thread shall be 60 ± 5 tex.

3.3. **Stitching and Seams**

3.3.1. **Stitches.** Stitch types shall conform to AS 2860.

- d. **Plain Stitching.** All plain stitching shall be stitch type 301 lockstitch with a stitch density of 45 ± 5 stitches per 10 cm;
- e. **Safety Stitching.** All safety stitching shall be five thread safety stitch (401.504);
- f. **Chain Stitching.** All chain stitching shall be stitch type 401, with a stitch density of 35 ± 5 stitches per 10 cm;
- g. **Repair to Chain Stitching.** Breaks in chain stitching shall be repaired by over stitching using stitch type 301. The over stitching shall extend at least 5 cm over each end of the break;
- h. **Overlocking.** All overlocking shall be stitch type 504, with a stitch density of 40 ± 5 stitches per 10 cm and a minimum stitch width of 0.4 cm. All raw edges shall be overlocked;
- i. **Topstitching.** All topstitching shall be stitch type 301 lockstitch with a stitch density of 45 ± 2 stitches per 10 cm with a nominal gauge of 0.5 cm;
- j. **Machine Tacking and Backtacking.** Thread breaks and ends of all seams and stitching, when caught in other stitches and seams shall be securely machine tacked or backtacked;
- k. **Buttonhole.** The buttonhole shall be tapered keyhole type worked over gimp. The buttonhole shall be cleanly cut with the opening dictated by the size of the button; and
- l. **Button Attachment.** The button shall be securely sewn with no less than six stitches through each pair of holes.

3.3.2. **Seams.** All seams shall conform to AS 2859.

- m. **All Seams.** All seams shall be one centimetre wide, unless otherwise stated.
- n. **Safety Stitch Seam.** Safety stitch seams 401.504 shall be used for all shoulder, side, armhole and sleeve seams of the coat and innerleg seams of the trousers.

3.4. **Construction**

3.4.1. **Cutting.** All component parts of the Uniform, Combat shall be free of soiled or defective fabric (as described in ASTM D 3990) and cut from the same batch. The large

components (fronts, backs and sleeves of coat and front and back of the trousers) shall be cut with the longer dimension in the direction of the warp.

- 3.4.1.1. **Other Component Parts.** All other components may be cut in either direction provided that all paired components of a given garment are cut in the same direction of the fabric

3.4.2. **Construction - Coat**

3.4.2.1. **Front Closure**

- o. Front opening with slide fastener closure;
- p. Slide fastener closure to have an overlap of 4 ± 0.2 cm;
- q. Slide fastener shall extend from the collar seam to 15 ± 0.5 cm above the bottom edge of the coat;
- r. Slide fastener shall be sewn with a double row of stitching;
- s. Fold back facing shall measure 6 ± 0.5 cm wide; and
- t. Facing shall be cut with the outer edge on the selvedge of the fabric.

3.4.2.2. **Breast Pockets with Flaps**

- u. Each front shall have a patch pocket, tool holders (refer 3.4.2.2.1), flap and closure;
- v. Back and bottom edges of the pockets shall have a bellow taking in 6 ± 0.3 cm of material;
- w. Fold edges of bellows shall be edge stitched;
- x. Pocket shall measure 17 ± 0.5 cm deep at the front edge, 20 ± 0.5 cm deep at the back edge and 15.5 ± 0.5 cm wide; and
- y. Top of the pocket shall be self neatened, turned 3 cm and lockstitched.

3.4.2.2.1. **Outside Pocket Tool Holders**

- a. Left breast pocket shall have three small tool holders sewn to the right edge on the outside of the pocket;
- b. Tool holder piece shall measure 12 ± 0.5 cm across;
- c. Tool holder shall be positioned 4 ± 0.2 cm down from the top edge of the pocket and finish at the bottom edge;
- d. Top edge of the tool holder shall follow the angle of the pocket, be self neatened, turned and lockstitched;
- e. The forward edge of the tool holder piece shall be turned and edge stitched on to the pocket;
- f. The back edge of the pocket shall be turned with the pocket edge;
- g. Bottom edge shall have two rows of stitching using a gauge of 0.6 cm; and
- h. Tool holder piece shall be divided with vertical rows of lockstitching to provide effective openings of approximately 5 cm, 4 cm and 3 cm.

3.4.2.2.2. **Inside Pocket Tool Holders**

- a. Left breast pocket shall have four small holders sewn inside the pocket;
- b. Tool holder shall be positioned 1.0 ± 0.5 cm in from the left front edge;
- c. Tool holder piece shall measure 16 ± 0.5 cm across;
- d. Tool holder piece shall be positioned 2 cm down from the top of the edge of the pocket;
- e. Top edge of the tool holders shall follow the angle of the pocket, be self neatened, turned and lockstitched;

3.4.3.3	Belk Loops
1	The first loop
2	The second loop
3	The third loop
4	The fourth loop
5	The fifth loop
6	The sixth loop
7	The seventh loop
8	The eighth loop
9	The ninth loop
10	The tenth loop
11	The eleventh loop
12	The twelfth loop
13	The thirteenth loop
14	The fourteenth loop
15	The fifteenth loop
16	The sixteenth loop
17	The seventeenth loop
18	The eighteenth loop
19	The nineteenth loop
20	The twentieth loop
21	The twenty-first loop
22	The twenty-second loop
23	The twenty-third loop
24	The twenty-fourth loop
25	The twenty-fifth loop
26	The twenty-sixth loop
27	The twenty-seventh loop
28	The twenty-eighth loop
29	The twenty-ninth loop
30	The thirtieth loop

- f. Forward and back edges of the tool holder piece shall be edge stitched on to the pocket;
- g. Bottom edge shall be securely sewn with double stitching and left as a raw edge; and
- h. Tool holder piece shall be divided with vertical rows of lockstitching to provide effective openings of approximately 4 cm.

3.4.2.2.3. **Pocket Attachment**

- a. Top of the pocket shall be positioned 4 ± 0.2 cm in from the centre front line;
- b. Bottom of the pocket shall be positioned 7 ± 0.5 cm in from the centre front line and 20 ± 0.5 cm down from the front centre neck;
- c. Pocket shall be edge stitched in position; and
- d. Each corner shall the pocket to be reinforced with either a triangular stitching, machine or bar tack for reinforcing.

3.4.2.2.4. **Flap**

- a. Each flap shall be one ply of folded self material incorporating a fly closure;
- b. Flap shall measure 1 cm longer than the patch pocket opening and 7.5 ± 0.2 cm deep;
- c. Fly shall be formed from a folded ply of self material, finish 1 cm above the bottom edge of the flap and be included in the side edge seams of the flap;
- d. Fly shall be machine tacked to the lining of the flap at the centre;
- e. Flap shall be attached 2 cm (effective) above each pocket and be centred laterally;
- f. Flap shall be topstitched 0.5 cm around all edges;
- g. Fly to be caught in the row of top stitching only (to minimise the thickness of the seam); and
- h. Each end of the flap to be reinforced with a bar tack or machine tack.

3.4.2.2.5. **Pocket Closure**

- a. Pocket and flap shall be closed by two ligne 27 buttons;
- b. Two vertical buttonholes shall be sewn 3 cm in from each side and 1 cm clear of the bottom edge of the flap;
- c. Two buttons to be sewn shall the pocket to align with the buttonholes; and
- d. Buttons shall be attached shall the double layers of material at the top of the pocket.

3.4.2.3. **Back**

- a. Back shall be cut in one piece; and
- b. Back shall hang smooth and flat without puckers.

3.4.2.4. **Collar**

- a. Collar shall be shirt style cut in one piece;
- b. Collar shall be top stitched using gauge of 0.5 cm; and
- c. Collar peaks and width at the centre back shall measure 8.5 ± 0.5 cm.

3.4.2.5. **Shoulder Straps**

- a. Shoulder straps shall measure 5 cm in width and extend the full length of the shoulder;
- b. Shoulder strap shall be included with the neck and armhole seams;

- c. Shoulder straps shall be positioned symmetrically over the shoulder seam and reinforced with a row of topstitching using a gauge of 0.5 cm at the shoulder seam end;
- d. A button shall be sewn to the shoulder strap ensuring the epaulette is held flat and smooth when buttoned; and
- e. Shoulder strap shall have a bar tack at each corner ensuring the bar tacks are sewn over seam inlays for extra strength.

3.4.2.6. **Epaulettes**

- a. Epaulettes shall have a 1.5 cm mitred end and be top stitched using gauge of 0.5 cm;
- b. Epaulettes shall be 5.5 cm wide at the sleeve seam and 4.5 cm wide at the base of the mitre;
- c. Epaulettes shall be included in the armhole seam and finish 2.5 cm from the collar seam; and
- d. Mitred end of the epaulettes shall have a buttonhole centrally positioned a clear 1.5 cm in from the point.

3.4.2.7. **Sleeves with Adjustable Tab**

- a. Sleeves shall be one piece set in style with adjustable cuff closure;
- b. Cuff shall have a self neatened 5 cm turn up, lockstitched in position;
- c. Adjustable tab shall be 5 cm wide and 6 cm long;
- d. Tab shall have a piece of hook tape 2.5 wide by 2.5 cm long stitched to the inner ply, 1 cm from the free end;
- e. Tab shall be machined to the front of the sleeve cuff, face toward the back and be level with the bottom edge of the sleeve;
- f. Tab shall be topstitched 0.5 cm to enclose the raw edges;
- g. A piece of pile tape measuring 17 cm long by 2.5 cm wide shall be centrally positioned on the cuff a clear 3 cm from the tab attachment; and
- h. Hook and pile tape shall be edge stitched on all sides.

3.4.2.8. **Hem**

- a. Bottom edge shall have a 1 cm self neatened turn-up to form hem; and
- b. Hem shall be lockstitched to position.

3.4.3. **Construction - Trousers**

3.4.3.1. **Waistband**

- a. Waistband shall be 4 cm wide, line with self material;
- b. Waistband shall have two rows of stitching 0.5 cm apart at the top and bottom edges;
- c. Waistband shall have 5.5 cm turn back at each end;
- d. Waistband shall have a button and buttonhole closure;
- e. Buttonhole shall be centred on the waistband a clear 1 cm from the edge of the left side; and
- f. A ligne 27 button shall be sewn to align with the buttonhole and allow a smooth and correctly aligned closure at the top of the fly taking the strain off the slide fastener.

3.4.3.2. **Waist Adjustment Tabs**

- a. Waist shall have two double base cloth adjustment tabs located centrally on the waistband;

- b. The adjustment tabs shall be positioned 7.5 ± 0.5 cm from the centre line of the fly, facing backwards;
- c. Straps shall measure 10 ± 0.5 cm long by 2.5 cm wide and be finished with edge stitching;
- d. Straps shall have two buttonholes and be attached to the waistband with a square flag tack;
- e. The first buttonholes shall be positioned a clear 1 cm and the second a clear 3.5 cm in from the end of the waistband (and offset one above and one below the centre line);
- f. Two ligne 27 buttons shall be sewn to the waistband; and
- g. One button shall correspond with the buttonhole at the end of the strap and the other sewn 5 cm toward the side seam.

3.4.3.3. **Belt Loops**

- a. The trousers shall have seven belt loops positioned over the waistband;
- b. The belt loops shall be sewn into the waistband attachment seam;
- c. Loops shall be 1 cm wide, edge stitched with an effective opening of 4.5 ± 0.2 cm;
- d. Two loops shall be located on the front 11 ± 0.5 cm from the centre line of the fly;
- e. One loop shall be positioned on each side seam, one on the back seam and the remaining two centred in the back; and
- f. The loops shall be turned at both ends, bar tacked to the top of the waistband and 1 cm below the waistband attachment seam.

3.4.3.4. **Fly**

- a. The fly shall consist of an underlap, French bearer and slide fastener;
- b. Left front edge shall be faced with a single ply of self material;
- c. The left stringer of the slide fastener shall be sewn to the facing with two rows of stitching;
- d. Top stitching on the fly shall be 4 ± 0.2 cm from the front edge;
- e. The top of each stringer shall be sewn in with the waistband seam; and
- f. The bottom of the fly opening shall be finished with a bar tack or machine tack.

3.4.3.4.1. **Fly Underlap**

- a. The underlap shall be double self material;
- b. The underlap shall measure 5 cm in width;
- c. The underlap shall be attached to the right front edge with the slide fastener stringer incorporated in the seam; and
- d. The bottom of the facing and underlap shall be bar tacked so as to take the strain off the slide fastener when open.

3.4.3.4.2. **French Bearer**

- a. The French bearer shall be double self material and attached to the fly underlap;
- b. The bearer shall have a buttonhole 1.5 cm from the end; and
- c. A button shall be sewn to the waistband to align with the buttonhole (to take the strain from the slide fastener when closed).

3.4.3.5. **Angled Side Pockets**

- a. Trousers shall have two angled side pockets with an effective opening of 18 ± 0.5 cm;

- b. Pocket opening shall extend from a point 4 cm forward of the side seam at the waistband and finish adjacent to the side seam at the bottom;
- c. Pocketing shall be self material, measure 17 ± 0.5 cm wide at the waist seam, 20 ± 0.5 cm wide at the bottom bar tack and 35 ± 0.5 cm long when measured from the waistband seam;
- d. Pocket bag shall be safety stitched;
- e. There shall be a two bar tacks; one at the base of the opening inclined downwards and the other at the top of the opening, parallel to and 1 cm down from the waistband seam; and
- f. The pocket opening shall be topstitched 0.5 cm.

3.4.3.6. **Left Thigh Pocket**

- a. Left thigh patch pocket shall have bellows at the back and bottom edges;
- b. Front of the pocket shall incorporate a slide fastener closing toward the top;
- c. Slide fastener shall measure no less than 21 cm long and finish 6 ± 0.5 cm from the bottom of the pocket;
- d. Pocket opening shall be covered with a welt measuring 4 cm wide (measured from the first row of stitching);
- e. Bellows shall take in 7 ± 0.2 cm of material with each fold edge stitched;
- f. Bellow shall be folded at the bottom back corner in a reverse box pleat; and
- g. Full width of the pleat shall be back stitched.

3.4.3.6.1. **Left Thigh Pocket Measurement/Position**

- a. Pocket shall measure 23 ± 1.0 cm wide and 30 ± 1.0 cm deep (excluding the bellows);
- b. One stringer of the slide fastener shall be double stitched to the front trousers;
- c. The other stringer shall be double stitched to the pocket;
- d. The front edge of the pocket shall be placed along the centre line of the trouser leg front;
- e. The top of the pocket shall be level with the crotch line (ie. the distance from the top of the waistband to the top of the pocket shall equal to the rise);
- f. The bottom edge of the pocket shall be attached to the trouser leg with two rows of stitching 0.5 cm apart;
- g. The upper row of stitching on the bottom edge of the pocket shall continue for 3 cm around the pocket corner into the edge stitching;
- h. A row of stitching shall be sewn from the front edge of the pocket to the bottom of the slide fastener;
- i. The top corners and the lower front corner of the pocket shall be bar tacked; and
- j. The bottom end of the slide fastener shall be bar tacked.

3.4.3.7. **Right Thigh Pocket**

- a. Right thigh patch pocket shall measure 20 ± 1.0 cm wide and 25 ± 1.0 cm deep;
- b. Pocket shall have a welt concealing the slide fastener;
- c. The top of the pocket shall close with a slide fastener measuring no less than 18 cm, closing toward the back;
- d. The slide fastener shall be medium weight, self locking, with end stops;
- e. One stringer shall be caught in the welt and sewn with two rows of stitching;
- f. The other stringer shall be attached to the pocket with two rows of stitching;

- g. The thigh pocket opening shall be secured at each end with a bar tack;
- h. The pocket shall be centred laterally over the side seam with the pocket opening level with the crotch line (ie. the distance from the top of the waistband to the top of the pocket shall be equal to the rise);
- i. The pocket shall be attached with two rows of stitching 0.5 cm apart; and
- j. All internal raw edges to be overlocked.

3.4.3.8. **Lower Right Leg Pocket**

- a. The lower right leg shall have an inside swing pocket with slide fastener closure;
- b. The pocket shall be centrally positioned over the side seam of the lower right leg 36 ± 1.0 cm for size 100R (grading variation will be required across sizes) up from the finished hem;
- c. The slide fastener shall have end stops and close toward the back;
- d. The finished pocket shall measure 22 ± 1.0 cm wide and 25 ± 1.0 cm deep;
- e. The bottom corners of pocket shall be rounded;
- f. The pocket bag shall be safety stitched; and
- g. Ends of the pocket opening shall be secured with bar tacks.

3.4.3.9. **Cuff with Eyelets**

- a. The bottoms of the trousers shall be self neatened, turned 2.5 cm and lockstitched; and
- b. Two embroidered eyelets shall be positioned centrally over the front inside cuff 2.5 cm apart.

3.5. **Stock Numbers and Size**

3.5.1. **Stock Numbers and Size Range.** The size range and stock numbers for Uniform shall be in accordance with Annexes B and D.

3.5.2. **Method of Measurement.** The method of measurement shall be in accordance with Annex E.

3.5.3. **Dimensions.** All detailed measurements of Uniform shall be governed solely by this specification. Measurements relating to size are specified in Annex A and Annex C and shall be verified by the methods given in Annex E. All other measurements are given in the relevant sub-paragraph of this specification.

3.5.4. **Tolerances.** Tolerances for controlling measurements are given at Annexes A and C and tolerances for some other dimensions are given in the relevant sub-paragraph of this specification. Notwithstanding any tolerance given, the coat and trousers shall be dimensionally balanced in all their parts. The maximum difference in the dimensions or position of corresponding features in either the coat or trousers of the Uniform shall not exceed the tolerance given for the given single feature. Top stitching does not have a specific tolerance; edge stitching shall be sewn adjacent to the edge and two-needle seams shall have a nominal gauge of 0.5 cm.

3.6. **Human Factors and Integration**

3.6.1. **Uniform, EOD & PET OPS Crews.** The Uniform shall be tested and/or inspected for integration with the following:

3.6.1.1. **Undergarments.** The Uniform shall integrate with thermal undergarments as defined in DEF(AUST)8196 Undergarments, Extreme Cold Weather.

3.6.1.2. **Combat Helmet.** The Uniform shall integrate with the Combat Helmet as defined in ARMY(AUST)6744 Combat Helmet.

3.6.1.3. **Body Armour.** The Uniform shall integrate with the In-service Body Armour as defined at para 2.1.9 of this specification

- 3.6.1.4. **Load Carrying Equipment.** The Uniform shall integrate with the load carrying equipment as defined at para 2.1.10 of this specification.
- 3.6.1.5. **Uniform, EOD & PET OPS Crews.** The Coat and Trousers shall integrate with each other.
- 3.6.2. **Human Factors of Uniform.** Uniform shall be tested and/or inspected to assess the suitability and functionality of the following:
- 3.6.2.1. **Closures.** All closures shall be easily operated with a bare or gloved hand.
- 3.6.2.2. **Pocket Access.** All pocket openings shall be easily accessible with a bare or gloved hand.
- 3.7. **Marking**
- 3.7.1. **Label.** Each Coat and Trouser shall have a permanent label, as defined at paragraph 5.2 of AS/NZS 2392, with the following information indelibly printed or woven in 3 mm high Sans Serif, uppercase characters. The coat label shall be sewn around all edges and attached at the centre back with the top of the label caught in the collar seam. The trouser label shall be sewn around all edges and attached to the right side pocket. [Very Important]
- Manufacturer's Name or Approved Logo;
 - State/Country of Manufacture;
 - Month/Year of Manufacture;
 - Order number;
 - The symbol ↑ in accordance with DEF(AUST)5047;
 - NATO Stock Number;
 - Size;
 - Name;
 - PM Keys Number;
 - Fibre Content to AS/NZS 2622; Method B and AS/NZS 2450;
 - FR Treated (for FR treated fabric only); and
 - Care Instructions (Care label to be in accordance with the latest edition of AS/NZS 1957 with reference to AS/NZS 2621 and AS/NZS 2622). Instructions pertaining to Flame Retardant properties to appear in word on the label in reference to general instructions, warnings, prohibited treatment, washing, drying, ironing and for dry cleaning instruction in words and symbols. This is to endure the garment is cared for appropriately to maintain its Flame Retardant properties through its service life.

Example Label:

MANUFACTURER'S NAME
STATE/COUNTRY OF MANUFACTURE
MONTH/YR OF MANUFACTURE XXX/X
XXX
ORDER NO.....
↑
NSN XXXX-XX-XXX-XXXX
SIZE XX
NAME
PM KEYS NO.....
FIBRE CONTENT:.....
FR TREATED
CARE INSTRUCTIONS:
.....

3.8. **Finishing**

- 3.8.1. **Presentation.** The Uniform shall be cleanly finished without gathers or puckering, slip stitching, uneven or incorrect stitching, pressed flat, with loose threads removed. The uniform shall not display gloss or pressing impressions after conclusion of the pressing process.

4. **REQUIREMENTS VERIFICATION**

- 4.1. The means of verification of each requirement shall be by testing, demonstration, analysis, inspection and other special qualification methods.
- 4.1.1. **Test. (T)** A test is the operation of the system, or a part of the system, or equipment using instrumentation or other special test equipment to collect data for later evaluation. The Commonwealth often collects verification test data through the performance of trials. Trials shall be conducted in accordance with the appropriate Test and Evaluation Management Plan
- 4.1.2. **Demonstration. (D)** A demonstration is the operation of the system, or a part of the system, or equipment, that relies on observable functional operation not requiring the use of instrumentation, special test equipment, or subsequent analysis.
- 4.1.3. **Analysis. (A)** Analysis is the processing of accumulated data obtained from other qualification methods or calculations. Examples of analysis include reduction, interpolation, or extrapolation of test results.
- 4.1.4. **Inspection. (I)** Inspection is the visual examination of system components, documentation etc.
- 4.1.5. **Other. (O)** Other means of verification may include the use of special tools or facilities, application of special techniques, procedures, acceptance limits, use of standard samples, pre-production or periodic production samples, pilot models, pilot lots or use of jury panels.
- 4.2. The means of verification of each individual requirement is indicated in Table 3 – Requirements Verification. A cross in the table column headed by the initial letter of Test, Demonstration, Analysis, Inspection or Other indicates that the requirement in that row will be verified by the method indicated; reference to more details of the method of verification being in the associated column.

5. **REQUIREMENTS TRACEABILITY**

Reserved.

6. INSPECTION AND TESTING

- 6.1. **Inspection.** The coat and trousers shall be quality checked by the manufacturer/contractor in accordance with the table below to ensure none of the faults are present.

Table 2 - LIST OF DEFECT

Feature	Fault
Material defects	Defects as detailed in ASTM D 3990.
Components and accessories	Any accessories, fabricated components or materials used for assembly, not as specified.
	Any components missing or made up wrong side outside irrespective of the effect on appearance.
Cutting	Coat: Back, fronts and sleeves not cut with the longer dimension in the direction of the warp.
Cutting	Trousers: The fronts and backs not cut in the longer direction of the warp.
Seams and stitching	Seams twisted, puckered or pleated.
	Parts of garments caught in any unrelated operation or stitching.
	Thread breaks or exposed ends of stitching not backstitched.
	Incorrect thread tension or thread type.
	Incorrect seam or inferior stitch type.
	Exposed raw edges.
Buttonholes	Breaks in safety stitching not overstitched.
	Buttonholes omitted, incorrectly made or made otherwise than as specified.
Machine & bar tacks	Missing, incorrectly positioned or badly made machine or bar tacks.
General	Missing component or sub-assembly.
	Missing buttons and studs.
	Missing, illegible or incorrect label.
	Incorrectly placed component or sub-assembly.
	All threads trimmed and loose threads removed.
	Needle chews which may develop into a hole, scissors or knife cuts, tears, mends, burns or exposed drill holes.

6.2. Testing

- 6.2.1. Initial testing of the thread, trimmings and hardware (as required by the specification), shall occur at pre-production sample stage and shall be followed by a testing frequency as determined under contract.
- 6.2.2. Testing shall be current, traceable to item that offered and carried out by an AS ISO/IEC 17025 accredited laboratory. Some of the national laboratory accrediting bodies providing accreditation to AS ISO/IEC 17025 standard include NATA (Australia), CNAS (China), HKAS (Hong Kong, China), IANZ (New Zealand), UKAS (United Kingdom) and A2LA (United States of America). All reports shall be in English.

7. NOTES

7.1. Packaging for Delivery

- 7.1.1. Packaging requirements are defined in DEF(AUST)1000 and the procurement contract.

TABLE 3 – REQUIREMENTS VERIFICATION

Para Ref	Requirements	T	D	A	I	O	Verification Details (or References)
3.1.	Design Concept						
3.1.1.	General						
3.1.2.	Design						
3.2.	Materials						
3.2.1.	Base Fabric			x			Analysis of manufacturer's test results and product data IAW DEF(AUST)10761.
3.2.1.1.	Colour Resolution						
3.2.2.	Buttons				x		Visual examination of sample.
3.2.3.	Hook and Pile Tape				x		Visual examination of sample.
3.2.4.	Slide Fastener				x	x	Visual examination of the sample and analysis of product data for the component IAW AS 2332.
3.2.5.	Threads						
3.2.5.1	Threads for Item 1 & 2				x	x	Visual examination of sample and analysis of product data IAW AS 2001.
3.3.	Stitching and Seams						
3.3.1.	Stitches					x	Visual examination of sample IAW AS 2860.
3.3.2.	Seams					x	Visual examination of sample IAW AS 2859.
3.4.	Construction						
3.4.1.	Cutting					x	Visual examination of sample IAW ASTM D 3990.
3.4.1.1.	Other Component Parts					x	Visual examination of sample.
3.4.2.	Construction - Coat						
3.4.2.1.	Front Closure					x	Visual examination of sample.
3.4.2.2.	Breast Pockets with Flaps					x	Visual examination of sample.
3.4.2.2.1.	Outside Pocket Tool Holders					x	Visual examination of sample.
3.4.2.2.2	Inside Pocket Tool Holders					x	Visual examination of sample.
3.4.2.2.3.	Pocket Attachment					x	Visual examination of sample.

Para Ref	Requirements	T	D	A	I	O	Verification Details (or References)
3.4.2.2.4.	Flaps				x		Visual examination of sample.
3.4.2.2.5.	Pocket Closure				x		Visual examination of sample.
3.4.2.3.	Back				x		Visual examination of sample.
3.4.2.4.	Collar				x		Visual examination of sample.
3.4.2.5.	Shoulder Straps				x		Visual examination of sample.
3.4.2.6.	Epaulettes				x		Visual examination of sample.
3.4.2.6.	Sleeves with Adjustable Tab				x		Visual examination of sample.
3.4.2.8.	Hem				x		Visual examination of sample.
3.4.3.	Construction Trousers						
3.4.3.1.	Waistband				x		Visual examination of sample.
3.4.3.2.	Waist Adjustment Tabs				x		Visual examination of sample.
3.4.3.3.	Belt Loops				x		Visual examination of sample.
3.4.3.4.	Fly				x		Visual examination of sample.
3.4.3.4.1.	Fly Underlap				x		Visual examination of sample.
3.4.3.4.2.	French Bearer				x		Visual examination of sample.
3.4.3.5.	Angled Side Pockets				x		Visual examination of sample.
3.4.3.6.	Left Thigh Pocket				x		Visual examination of sample.
3.4.3.6.1.	Left Thigh Pocket Measurement/Position				x		Visual examination of sample.
3.4.3.7.	Right Thigh Pocket				x		Visual examination of sample.
3.4.3.8.	Lower Right Leg Pocket				x		Visual examination of sample.
3.4.3.9.	Cuff with Eyelets				x		Visual examination of sample.
3.5.	Stock Numbers and Size						
3.5.1.	Stock Numbers & Size Range				x		Visual examination of sample IAW Annexes B and D.
3.5.2.	Method of Measurement				x		Visual examination of sample IAW Annex E.
3.5.3.	Dimensions				x		Visual examination of sample IAW Annex A, C and E.
3.5.4.	Tolerances				x		Visual examination of sample IAW Annex A and C.

Para Ref	Requirements	T	D	A	I	O	Verification Details (or References)
3.6.	Human Factors and Integration						
3.6.1.	Uniform, EOD & PET OPS Crews						
3.6.1.1.	Undergarments		x		x		Demonstration of integration and visual examination of sample.
3.6.1.2.	Combat Helmet		x		x		Demonstration of integration and visual examination of sample.
3.6.1.3.	Body Armour		x		x		Demonstration of integration and visual examination of sample.
3.6.1.4.	Load Carrying Equipment		x		x		Demonstration of integration and visual examination of sample.
3.6.1.5.	Uniform, EOD & PET OPS Crews		x		x		Demonstration of integration and visual examination of sample.
3.6.2.	Human Factors of Uniform						
3.6.2.1.	Closures		x		x		Demonstration of human factors and visual examination of sample.
3.6.2.2.	Pocket Access		x		x		Demonstration of human factors and visual examination of sample.
3.7.	Marking						
3.7.1	Label				x		Visual examination of sample IAW DEF(AUST)5047 with reference to AS/NZS 1957, AS/NZS 2621 and AS/NZS 2622, AS/NZS 2450 and AS/NZS 2392.
3.8.	Finishing						
3.8.1.	Presentation				x		Visual examination of sample.

ANNEX A

SIZES and MEASUREMENTS – COAT

UNIFORM, EOD & PET OPS CREWS

Measurement of Wearer and Size	Chest	Waist	Bottom of Coat	Back Width	Back Length	Sleeve Length	Cuff Width
Tolerance	± 1.5	± 1.5	± 2	± 1	± 1	± 1	± 0.5
SHORT							
80 S	105	89	100	41.0	67.6	46	36
85 S	110	94	104	42.5	68.2	46	36.5
90 S	115	99	108	44	68.8	46	37
95 S	120	104	112	45.5	69.4	46	37.5
100 S	125	109	116	47	70	46	38
REGULAR							
80 R	105	89	100	41	71.6	50	36
85 R	110	94	104	42.5	72.2	50	36.5
90 R	115	99	108	44	72.8	50	37
95 R	120	104	112	45.5	73.4	50	37.5
100 R	125	109	116	47	74	50	38
105 R	130	114	120	48.5	74.6	50	38.5
110 R	135	119	124	50	75.2	50	39
115 R	140	124	128	51.5	75.8	50	39.5
120 R	145	129	132	53	76.4	50	40
LONG							
95 L	120	104	112	45.5	77.4	54	37.5
100 L	125	109	116	47	78	54	38
105 L	130	114	120	48.5	78.6	54	38.5
110 L	135	119	124	50	78.2	54	39
115 L	140	124	128	51.5	79.8	54	39.5

NOTE: All measurements in centimetres

ANNEX B

SCHEDULE OF STOCK NUMBERS AND SIZES

Item 1 – Coat, Cotton, 2 x 1 Twill, FR Treated, EOD & PET OPS Crews

SIZE & CHEST of WEARER	NATO STOCK NUMBERS DPCU
SHORT	
70S	TBA
75S	TBA
80S	8415-66-151-1193
85S	8415-66-151-1194
90S	8415-66-151-1195
95S	8415-66-151-1196
100S	8415-66-151-1197
REGULAR	
70R	TBA
75R	TBA
80R	TBA
85R	8415-66-151-1198
90R	8415-66-151-1199
95R	8415-66-151-1200
100R	8415-66-151-1201
105R	8415-66-151-1202
110R	8415-66-151-1203
115R	8415-66-151-1204
120R	8415-66-151-1205
LONG	
85L	TBA
90L	TBA
95L	8415-66-151-1206
100L	8415-66-151-1207
105L	8415-66-151-1208
110L	8415-66-151-1209
115L	8415-66-151-1210
MTM	8415-66-151-1211

ANNEX C

SIZES and MEASUREMENTS – TROUSERS

UNIFORM, EOD & PET OPS CREWS

Measurement of Wearer and Size	Waist	Seat	Outer Leg	Inner Leg	Knee	Cuff
Tolerance	± 1.5	± 2	± 1.5	± 1	± 1	± 0.5
SHORT						
70 S	70	100	99	72	54.6	46
75 S	75	104	99.5	72	56.2	47
80 S	80	108	100	72	57.3	47
85 S	85	112	100.5	72	58.9	48
90 S	90	116	101	72	60	48
REGULAR						
70 R	70	100	106	78	54.6	47
75 R	75	104	106.5	78	56.2	48
80 R	80	108	107	78	57.3	48
85 R	85	112	107.5	78	58.9	49
90 R	90	116	108	78	60	49
95 R	95	120	108.5	78	61.6	50
100 R	100	124	109	78	62.7	50
105 R	105	128	109.5	78	64.3	51
110 R	110	132	110	78	65.4	51
LONG						
85 L	85	112	115.5	85	58.9	50
90 L	90	116	116	85	60	50
95 L	95	120	116.5	85	61.6	51
100 L	100	124	117	85	62.7	51
105 L	105	128	117.5	85	64.3	52

NOTE: All measurements in centimetres

SCHEDULE OF STOCK NUMBERS AND SIZES

Item 2 – Trousers, Cotton, 2 x 1 Twill, FR Treated, EOD & PET OPS Crews

SIZE & WAIST OF WEARER	NATO STOCK NUMBERS DPCU
SHORT	
70S	8415-66-151-1212
75S	8415-66-151-1213
80S	8415-66-151-1214
85S	8415-66-151-1215
90S	8415-66-151-1216
REGULAR	
70R	TBA
75R	TBA
80R	8415-66-151-1217
85R	8415-66-151-1218
90R	8415-66-151-1219
95R	8415-66-151-1220
100R	8415-66-151-1221
105R	8415-66-151-1222
110R	8415-66-151-1223
115R	8415-66-151-1224
LONG	
80L	8415-66-151-1225
85L	8415-66-151-1226
90L	8415-66-151-1227
95L	8415-66-151-1228
100L	8415-66-151-1229
105L	8415-66-151-1230
110L	8415-66-151-1231
MTM	8415-66-151-1232

ANNEX E

METHOD OF MEASUREMENT

COAT

Chest	With slide fastener closed, measure across the coat at the underarm point from folded edge to folded edge and double the measurement.
Waist	With the coat lying flat and slide fastener closed, measure across the coat at the narrowest point of the waist, from the folded edge to folded edge and double the measurement.
Bottom Circumference	With the coat lying flat and slide fastener closed, measure across the coat from the folded edge to folded edge and double the measurement.
Back Width	Measure from armhole seam to armhole seam, 12 cm down the centre back at the collar seam
Back Length	Measure from the centre back at the collar seam to the hem edge.
Sleeve Length	With the sleeve laid flat, measure along the underarm seam from armhole to cuff edge.
Cuff	Measure along the cuff opening edge from folded edge to folded edge and double the measurement.

TROUSERS

Waist	With slide fastener closed, measure top edge of waistband from folded edge to folded edge and double the measurement.
Seat	With trousers lying flat, measure across trousers approximately (1/3 of the way up between the inner leg/crotch seam intersection and the waistband), from folded edge to folded edge and double the measurement.
Outer leg	Measurement taken from top of waistband at the side seam to bottom of finished trousers.
Inner leg	Measurement taken from the crotch seam to the bottom of the finished trousers.
Knee	With trousers lying flat, measure width across trousers, 5 cm above the mid point of the inner leg seam length, from folded edge to folded edge, and double.
Cuff	With trousers lying flat, measure across trousers at finished hem edge, from folded edge to folded edge and double the measurement.

ACRONYMS

A2LA	American Association for Laboratory Accreditation
ADE(M)	Australian Design Establishment (Mechanical)
ADF	Australian Defence Force
AFV	Armoured Fighting Vehicle
AS	Australian Standard
ASTM	American Society for Testing and Materials
AS/NZS	Australian /New Zealand Standard
CLOSP0	Clothing Systems Program Office
CNAS	China National Accreditation Service for Conformity Assessment
CS	Colour Standard
DAAR	Design Acceptance Authority Representative
DCLOSP0	Director CLOSP0
DPCU	Disruptive Pattern Camouflage Uniform
EOD	Explosive Ordnance Disposal
HKAS	Hong Kong Accreditation Service
IANZ	International Accreditation New Zealand
IAW	In Accordance With
IEC	International Electrotechnical Commission
ISO	International Organisation for Standardisation
MS	Material Standard
MTM	Made To Measure
NATA	National Association of Testing Authorities, Australia
NATO	North Atlantic Treaty Organisation
NSC	NATO Supply Classification
NSN	NATO Stock Number
PET OPS	Petroleum Operators
TA	Technical Advisor
UKAS	United Kingdom Accreditation Service

DOCUMENT IMPROVEMENT PROPOSAL

DEF(AUST)10759 - UNIFORM, EXPLOSIVE ORDNANCE DISPOSAL & PETROLEUM OPERATOR CREWS

- SPECIFICATION FOR CONTRACT

The purpose of this form is to solicit comments that will assist in maintaining the document named above as both practical and realistic. When completed, the form and any additional papers, should be forwarded to the Sponsoring Appointment named in this document or to:

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Army Standardisation
Land Engineering Agency
3rd Floor, Defence Plaza Melbourne
661 Bourke Street
MELBOURNE VIC 3000

NB Comments submitted do not constitute or imply authorisation to waive any requirement of the document or to amend contractual requirements.

1. Has any part of this document created problems or required interpretation in use? State paragraph no(s) and any rewording suggested.

2. Has any new technology rendered any process obsolete? Suggestions supported by examples are welcome where the new process/hardware has proved satisfactory.

3. Comments on any requirements considered to be too rigid/too expensive.

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Requests for copies of this document and some Referenced Documents may be directed to the appropriate source listed below:

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Campbell Park Offices (CP4-SP-013)
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Attention: NSTDC
Telephone: (02) 6266 2906
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DEPARTMENT OF DEFENCE (Land)

Land Engineering Agency
Attention: Technical Data Centre
5th Floor, Defence Plaza Melbourne
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MELBOURNE VIC 3000
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Army Standardisation:

<http://vbmweb.sor.defence.gov.au/SPECS/Triservice/Directory.htm>

Aerospace Technical Standards Document Centre:

<http://wilap006.sor.defence.gov.au/Specs/defence.asp>

ADF Maritimer Material Requirements Set:

<http://defweb.cbr.defence.gov.au/navsyscom/mrs/HomePage.htm>

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AUSTRALIAN GOVERNMENT
AUSTRALIAN DEFENCE STANDARD

DEF(AUST)10761 / Issue 1

Dated 18 December 2009

ORIGINAL DOCUMENT

*

**CLOTH, COTTON, TWILL WEAVE, FIRE
RETARDANT TREATED**

SPECIFICATION FOR CONTRACT

CBT/CLOSP0/09/02

*

PUBLISHED UNDER AUTHORITY
OF DEPARTMENT OF DEFENCE

USAGE: Maritime, Land, Air

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DEF(AUST)10761 / Issue 1

DOCUMENT MANAGEMENT INFORMATION

Ownership and responsibility for approval and acceptance of this specification is detailed below

Sponsoring Defence Group:	Defence Materiel Organisation	
Sponsoring Organisation:	Land Systems Division	
Sponsoring Appointment:	Director Clothing Systems Program Office	
Specification Author:	TA CLOSP0	Approved: 15 December 2009
Approval Authority:	DAAR CLOSP0	Approved: 17 December 2009
Executive Authority:	DCLOSP0	Approved: 18 December 2009

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AMENDMENT		EFFECTED	
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LIST OF ANNEXES

Annex A	Colour Standards and NSN
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1. SCOPE**1.1. Identification**

- 1.1.1. This document specifies requirements for the Cloth, Cotton, Twill Weave, Flame retardant (FR) Treated to be developed to satisfy a capability need identified by the Department of Defence.

1.2. System Overview

- 1.2.1. The Cloth, Cotton, Twill Weave Flame retardant (FR) Treated shall be used in the manufacture of uniforms for Explosive Ordnance Disposal (EOD) / Petroleum (PET) operators and other end uses as applicable (e.g. badges, hats, aprons). The cloth for EOD/PET operator's uniforms shall be flame retardant and maintain its flame retardant properties after laundering.

- 1.2.2. This specification covers the requirements for the manufacture of:

Item 1: Cloth, Cotton, 2 x 1 Twill Weave, DPP

Item 2: Cloth, Cotton, 3 x 1 Twill Weave, DPP

Item 3: Reserved

Item 4: Reserved

NOTE: Details of Colours, Colour Standard and NATO Stock Numbers for each item are listed in Annex A.

1.3. Document Overview

- 1.3.1. This specification details the minimum acceptable standards of functional and performance requirements for the Cloth, Cotton, Twill Weave, Flame retardant (FR) Treated and the means by which satisfaction of those requirements will be verified for Contract CBT/CLOSP0/09/02. This contract specification is based upon tender specification DEF(AUST)8900 Issue 1, used for RFT CBT/CLOSP0/09/02.

- 1.3.2. No part of this document is classified for security purposes.

2. DEFINITIONS AND REFERENCED DOCUMENTS**2.1. Definitions**

- 2.1.1. The Australian Macquarie Dictionary fourth edition, 2005 is the reference source for all terms used in this specification, except for those defined in this Definitions section.

- 2.1.2. **Able, Capable.** Requirements that include the adjectives able or capable or adjectives ending in -able or -ible shall be interpreted as being references to extant capabilities of the equipment or system without any form of future modification or enhancement, and all means and facilities to enable the satisfaction of those requirements shall be provided with and considered to be part of the equipment or system.

- 2.1.3. **Contract Authority.** The authority nominated in the contract as the authority responsible for all matters related to the procurement of the items specified in the document.

- 2.1.4. **Material Standard.** Material Standard (if applicable) are provided as a guide only for style, general appearance, handle, finish, workmanship and any other properties not defined in this specification. The specification must be strictly adhered to in all respects for the design characteristics, dimensions and all related detail. Should the specification and material standard be at a variance, the specification shall prevail to the extent of any inconsistency.

2.2. **Referenced Documents**

2.2.1. The following documents form a part of this specification to the extent specified herein.

2.2.2. The latest issue of the following documents at the issue date of this specification shall apply:

Document Numbers Title

Defence Standards

DEF(AUST) 5047 Identification Marking of Stores and Equipment ¹

DEF(AUST) 8746 Print Design, Disruptive Pattern ¹

Standards Australia

AS 1083 Glossary of Terms and defects in Woven and Knitted Textile piece goods ²

AS 1680.2.0 Interior Lighting – Recommendations for specific tasks and interiors ²

AS 2001 Methods of Test for Textiles ²

AS 4967:2006 Protective clothing for firefighters – Requirements and test methods for protective clothing used for structural firefighting ²

AS ISO/IEC 17025 General requirements for the competence of testing and calibration laboratories ²

AS/NZS 1957 Textiles – Care Labelling ²

AS/NZS 2450 Natural and Man-Made fibres—Generic names ²

AS/NZS 2621 Textiles – Care Labelling ²

AS/NZS 2622 Textile Products – Fibre Content Labelling ²

International Standards

ISO 10528 Commercial laundering for textile fabrics prior to flammability testing ²

ISO 12945 Fabric propensity to surface fuzzing and pilling ²

AATCC Method 79 Absorbency of Bleached Textiles ²

2.2.3. **Order of precedence.** In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. However, nothing in this document supersedes applicable laws and regulations unless a specific exemption has been obtained.

¹ Copies of these documents may be obtained from the Contract Officer.

² Copies of International and Australian Standards may be obtained from:

Publication Distributor - SAI Global
Office Hours: 8am to 5pm AEST
Telephone: 131 242
Facsimile: 1300 65 49 49
Overseas Telephone calls +61 2 8206 6010
Overseas Faxes +61 2 8206 6020
Email: sales @sai-global.com
Web shop: <http://www.saiglobal.com/shop>

3. REQUIREMENTS

- 3.1. Requirements are detailed in Table 1 – Requirements Verification.

4. REQUIREMENTS VERIFICATION

- 4.1. The means of verification of each requirement shall be by testing, demonstration, analysis, inspection and other special qualification methods.
- 4.1.1. **Test. (T)** A test is the operation of the system, or a part of the system, or equipment using instrumentation or other special test equipment to collect data for later evaluation. The Commonwealth often collects verification test data through the performance of trials. Trials shall be conducted in accordance with the appropriate Test and Evaluation Management Plan.
- 4.1.2. **Demonstration. (D)** A demonstration is the operation of the system, or a part of the system, or equipment, that relies on observable functional operation not requiring the use of instrumentation, special test equipment, or subsequent analysis.
- 4.1.3. **Analysis. (A)** Analysis is the processing of accumulated data obtained from other qualification methods or calculations. Examples of analysis include reduction, interpolation, or extrapolation of test results.
- 4.1.4. **Inspection. (I)** Inspection is the visual examination of system components, documentation etc.
- 4.1.5. **Other. (O)** Other means of verification may include the use of special tools or facilities, application of special techniques, procedures, acceptance limits, use of standard samples, pre-production or periodic production samples, pilot models, pilot lots or use of jury panels.
- 4.2. The means of verification of each individual requirement is indicated in Table 1 – Requirements Verification and Tenderer's Response. A cross in the table column headed by the initial letter of Test, Demonstration, Analysis, Inspection or Other indicates that the requirement in that row will be verified by the method indicated; reference to more details of the method of verification being in the associated column.

5. REQUIREMENTS TRACEABILITY

Reserved.

6. INSPECTION AND TESTING

- 6.1. Inspection
- 6.1.1. **Inspection of Cloth:** The visual inspection shall be conducted by manufacturer/Contractor Inspecting Officer under the minimum conditions specified in AS 1680.2.0 Table 2. The normal viewing distance shall be one metre. Defects listed IAW AS 1083:1971 shall be marked on the roll and identified on the swing ticket. A length of 0.1 m shall be deducted for every defect in each roll accepted. Where a defect continues for more than 0.1 m in the warp, a mark shall be inserted at each end of the defect and the deduction shall be the distance between these markers.
- 6.1.2. **Acceptable Quality:** Any roll of cloth containing an average of more than one defect (as stated in AS 1083) for each 10 m length may be rejected by Commonwealth/Garment manufacturer. All accepted pieces shall be permanently marked on the inspection ticket by the contractor's Inspecting Officer. Any piece of cloth rejected shall be suitably marked. Each roll shall contain no more than two pieces, neither of which shall be less than 10 m in length.

6.2. **Testing**

- 6.2.1. Initial testing of the cloth shall occur at pre-production sample stage and shall be followed by a testing frequency as determined under contract.
- 6.2.2. Testing shall be current, traceable to the fabric that is offered and carried out by an AS ISO/INE 17025 accredited laboratory. Some of the national laboratory accrediting bodies providing accreditation to AS ISO/INE 17025 standard include NATA (Australia), CNAS (China), HKAS (Hong Kong, China), IANZ (New Zealand), UKAS (United Kingdom) and A2LA (United States of America). Test reports shall be in English.

Table 1 –Requirements Verification

Serial	Requirements	T D A I C					Verification Details (or References)
		T	D	A	I	C	
3.1.	Construction						
3.1.1	The cloth shall be manufactured from Cotton. For items 1 and 2 (FR treated) of this specification.		x				Analysis of manufacturer's product data and test results IAW AS 2001.7.
3.1.2	The structure of the cloth shall be: Item 1: 2 x 1 twill weave Item 2: 3 x 1 twill weave		x				Visual inspection of finished cloth and analysis of manufacturer's product data.
3.1.3	The mass of per unit area for the finished cloth shall be: Item 1: 190 - 230 g/m ² Item 2: 290 - 340 g/m ²		x				Analysis of manufacturer's product data and test results IAW AS 2001.2.13.
3.1.4	The useable width of the finished cloth shall be not less than 147 cm. For items 1 and 2 (FR treated) of this specification.			x			Visual examination of sample.
3.2.	Colour						
3.2.1	Visual assessment of the Print Design and Colours of the finished cloth shall meet the requirements as specified in DEF(AUST)8746. For items 1 and 2 (FR treated) of this specification.		x				Visual examination of sample and analysis IAW DEF(AUST)8746.
3.3.2	The Colours and Print Design is specified in DEF(AUST)8746.						

3.3	Near Infrared (NIR)					
3.3.1	The Near Infrared Reflectance of each colour shall meet the requirements as specified in DEF(AUST)8746 Table 1 - DPP Near Infrared Reflectance Values. For all DPP fabrics of this specification only.			x		Analysis of manufacturer's test results against DEF(AUST)8746.
3.4	Strength					
3.4.1	Breaking Force (mean, N/50 mm width) for the cloth be: Item 1: warp ≥ 700 N, weft ≥ 300 N Item 2: warp ≥ 1100 N, weft ≥ 500 N			x		Analysis of manufacturer's product data and test results IAW AS 2001.2.3.1 (cut strip method)
3.4.2	Tearing Force (mean) for the cloth shall be: Item 1: warp ≥ 15 N, weft ≥ 12 N Item 2: warp ≥ 25 N, weft ≥ 20 N			x		Analysis of manufacturer's product data and test results IAW AS 2001.2.10 (Wing rip method).
3.4.3	Seam Efficiency (Yarn slippage) in woven fabrics shall be max 6 mm in both warp and weft direction. For items 1 and 2 (FR treated) of this specification.			x		Analysis of manufacturer's product data and test results IAW AS 2001.2.22 @ 120 N.
3.5	Colourfastness for Printed Cloth, Plain Dyed Cloth					
3.5.1	Colourfastness to light (artificial - Mercury Lamp) shall be: min 6 For items 1 and 2 (FR treated) of this specification.			x		Analysis of manufacturer's product data and test results IAW AS 2001.4.21 (Blue Wool Scale).

3.5.2	<p>Colourfastness to water shall be:</p> <p>Change in Specimen: min 4-5</p> <p>Staining Standard Material: min 4-5</p> <p>For items 1 and 2 (FR treated) of this specification.</p>						Analysis of manufacturer's product data and test results IAW AS 2001.4.E01.
3.5.2.1	<p>Change in NIR reflectance after colourfastness to water test shall be $\pm 5\%$</p> <p>For all DPP fabrics only.</p>				x		Analysis of manufacturer's product data and test results against DEF(AUST)8746 Table 1, IAW AS 2001.4.E01.
3.5.3	<p>Colourfastness to perspiration (acid and alkaline) shall be:</p> <p>Change in Specimen : min 4-5</p> <p>Staining Standard Material: min 4-5</p> <p>For items 1 and 2 (FR treated) of this specification.</p>				x		Analysis of manufacturer's product data and test results IAW AS 2001.4.E04.
3.5.3.1	<p>Change in NIR reflectance after colourfastness to perspiration test shall be $\pm 5\%$</p> <p>For all DPP fabrics only.</p>				x		Analysis of manufacturer's product data and test results against DEF(AUST)8746 Table 1, IAW AS 2001.4.E04.
3.5.4	Reserved						
3.5.4.1	Reserved						
3.5.5	<p>Colourfastness to rubbing shall be:</p> <p>Dry: Staining Standard Material: min 4</p> <p>Wet: Staining Standard Material: min 3</p> <p>For all items of this specification.</p>				x		Analysis of manufacturer's product data and test results IAW AS 2001.4.3.
3.5.5.1	<p>Change in NIR reflectance after colourfastness to rubbing test shall be $\pm 5\%$</p> <p>For all DPP fabrics only.</p>				x		Analysis of manufacturer's product data and test results against DEF(AUST)8746 Table 1, IAW AS 2001.4.3.

3.5.6	<p>Colourfastness to dry cleaning (perchloroethylene and white spirit) shall be:</p> <p>Change in Specimen: min 4-5</p> <p>Staining Standard Material: min 4-5</p> <p>For items 1 and 2 (FR treated) of this specification.</p>			x	Analysis of manufacturer's product data and test results IAW AS 2001.4.16.
3.5.6.1	<p>Change in NIR reflectance after colourfastness to water test shall be $\pm 5\%$</p> <p>For all DPP fabrics of items 1 and 2 only.</p>			x	Analysis of manufacturer's product data and test results against DEF(AUST)8746 Table 1, IAW AS 2001.4.16.
3.6	Dimensional Stability After Washing				
3.6.1	<p>Dimensional change after washing shall not exceed $\pm 3\%$ in either warp or weft direction.</p> <p>For items 1 and 2 (FR treated) of this specification.</p>			x	Analysis of manufacturer's product data and test results IAW AS 2001.5.4 Procedure 2B, drying procedure E tumble dries (3 x).
3.7	Wear / Abrasion				
3.7.1	<p>The Pilling of the cloth shall be performed after washing (according to serial 3.6.1 Dimensional change after washing) and shall be min 4-5 after 5 hours and min 3-4 after 10 hours.</p> <p>For items 1 and 2 (FR treated) of this specification.</p>			x	Analysis of manufacturer's product data and test results IAW Washing: AS 2001.5.4 Procedure 2B, drying procedure E tumble dries (3 x). Pilling: ISO 12945- Part 1.
3.7.2	<p>The Abrasion resistance (Martindale method) of the cloth shall be greater than 30,000 cycles.</p> <p>For items 1 and 2 (FR treated) of this specification.</p>			x	Analysis of manufacturer's product data and test results IAW AS 2001.2.25.2 @ 9 kPa.
3.8	Protection				
3.8.1	Flammability				
3.8.1.1	<p>The finished cloth shall have no ignition from 10 to 20 sec.</p> <p>For items 1 and 2 of this specification.</p>			x	Analysis of manufacturer's product data and test results IAW AS 2755.1.

3.8.1.2	The finished cloth shall have no ignition from 10 to 20 sec when tested after 50 washes in accordance with ISO 10528. For items 1 and 2 of this specification.	x	Analysis of manufacturer's product data and test results IAW AS 2755.1.
3.8.1.3	Cloth shall have no observable melt or drip when exposed to flame for 20 seconds. For items 1 and 2 (FR treated) of this specification.	x	Analysis of manufacturer's product data and test results IAW AS 2755.2. Where 'melt or drip' are defined as described in AS4967:2006.
3.8.1.4	There shall be no burn to the first marker For items 1 and 2 of this specification.	x	Analysis of manufacturer's product data and test results IAW AS 2755.2.
3.9	Other		
3.9.1	Absorbency / Wickability of the cloth shall be performed after washing (according to 3.6.1: Dimensional change after washing) and shall not exceed 1 second on all individual colours when tested on the back side of the cloth. For items 1 and 2 of this specification.	x	Analysis of manufacturer's product data and test results IAW AATCC Method 79 + AS 2001.5.4 Procedure 2B, drying procedure E tumble dries (3 x).
3.9.2	The pH value of aqueous extract of the sample shall be not less than 5.0 and no more than 8.0. For items 1 and 2 (FR treated) of this specification.	x	Analysis of manufacturer's product data IAW AS 2001.3.1 – Test B.
3.10	Marking		
3.10.1	Label	x	Visual inspection of finished cloth against Annex B, IAW AS/NZS 2622 and AS/NZS 2450, method B.

3.10.2	<p>Special Marking.</p> <p>a. The special information for finishing treatment as Flame Retardation shall be marked on each roll, or shall accompany the roll of FR fabric on a data sheet or pamphlet; and</p> <p>b. Special care instructions.</p> <p>For FR treated fabrics only.</p>	x	Visual inspection of finished cloth and manufacturer's data sheet.
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ANNEX A

COLOUR STANDARDS AND NSN

CLOTH, COTTON, TWILL WEAVE, FR TREATED

Fabric	Print/Plain Colour	Colour Standard	NSN
Item 1: Cloth, Cotton, 2 x 1 Twill Weave, FR			
1 a	DPP	CS 8305-0176	8305-66-139-0880
Item 2: Cloth, Cotton, 3 x 1 Twill Weave, FR			
2 a	DPP	CS 8305-0176	8305-66-139-0877
Item 3: Cloth, Cotton, 2 x 1 Twill Weave - Reserved			
Item 4: Cloth, Cotton, 3 x 1 Twill Weave - Reserved			

ANNEX B

LABEL CONTENT

a.	Manufacturer's Name or Approved Logo;
b.	State/Country of Manufacture;
c.	Month/Year of Manufacture;
d.	Order number;
e.	The Symbol "↑" in accordance with DEF(AUST)5047;
f.	NATO Stock Number;
g.	Fibre Content to AS/NZS 2622, Method A and AS/NZS 2450; and
h.	Care Instructions (Care label to be in accordance with the latest edition of AS/NZS 1957 and with reference to AS/NZS 2450, AS/NZS 2621 and AS/NZS 2622). Instructions pertaining to Flame Retardant properties to appear in words on the label in reference to general instructions, warnings, prohibited treatments, washing, drying, ironing and for dry cleaning instructions in words and symbols. (The intent is to ensure the garment is cared for appropriately to maintain its Flame Retardant properties through its service life).

ANNEX C

ACRONYMS

A2LA	American Association for Laboratory Accreditation
AATCC	American Association of Textile Chemists and Colourists
AFP	Australian Federal Police
AFV	Armoured Fighting Vehicle
AS	Australian Standard
CBT	Combat
CLOSPO	Clothing Systems Program Office
CNAS	China National Accreditation Services of Conformity Assessment
CS	Colour Standard
EOD	Explosive Ordnance Disposal
DAAR	Design Acceptance Authority Representative
DCLOSPO	Director CLOSPO
DPDP	Disruptive Pattern Desert Printed
DPEP	Disruptive Pattern Enemy Printed
DPP	Disruptive Pattern Printed
FR	Fire Retardant
HKAS	Hong Kong Accreditation Service
IAW	In Accordance With
IANZ	International Accreditation New Zealand
IEC	International Electrotechnical Commission
ISO	International Organisation for Standardisation
NATA	National Association of Testing Authorities Australia
NSC	NATO Supply Classification
NSN	NATO Stock Number
PET	Petroleum
RFT	Request For Tender
TA	Technical Advisor
TBA	To Be Advised
UKAS	United Kingdom Accreditation Service
UN	United Nations

DOCUMENT IMPROVEMENT PROPOSAL

DEF(AUST)10761 - CLOTH, COTTON, TWILL WEAVE, FLAME RETARDANT TREATED

SPECIFICATON FOR CONTRACT

The purpose of this form is to solicit comments that will assist in maintaining the document named above as both practical and realistic. When completed, the form and any additional papers, should be forwarded to the Sponsoring Appointment named in this document or to:

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MELBOURNE VIC 3000

- NB** Comments submitted do not constitute or imply authorisation to waive any requirement of the document or to amend contractual requirements.
1. **Has any part of this document created problems or required interpretation in use? State paragraph no(s) and any rewording suggested.**
 2. **Has any new technology rendered any process obsolete? Suggestions supported by examples are welcome where the new process/hardware has proved satisfactory.**
 3. **Comments on any requirements considered to be too rigid/too expensive.**
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Requests for copies of this Standard, or certain of the listed Applicable Documents, may be directed to the appropriate source listed below:

DEPARTMENT OF DEFENCE (Maritime)

Director Naval Platform Systems
Department of Defence (Navy Office)
Campbell Park Offices (CP4-SP-013)
CANBERRA ACT 2600
Attention: NSTDC
Telephone: (06) 266 2906
Facsimile: (06) 266 2105

DEPARTMENT OF DEFENCE (Land)

Land Engineering Agency
Attention: Technical Data Centre
5th Floor, Defence Plaza Melbourne
661 Bourke St
MELBOURNE VIC 3000
Email: LEATechnicalData@drnex.defence.gov.au
Telephone: (03) 9282 7404
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DEPARTMENT OF DEFENCE (Air)

Aerospace Technical Standards Document Centre (ATSDC)
Common Services System Support Office (CSSSO)
Building L7-1
RAAF Williams
Laverton VIC 3027
Telephone: (03) 9256 4236
Facsimile: (03) 9256 4888

DEFENCE RESTRICTED NETWORK (DRN)

Army Standardisation:

<http://vbmweb.sor.defence.gov.au/SPECS/Triservice/Directory.htm>

Aerospace Technical Standards Document Centre:

<http://wilap006.sor.defence.gov.au/Specs/defence.asp>

ADF Maritime Material Requirements Set:

<http://defweb.cbr.defence.gov.au/navsyscom/mrs/HomePage.htm>

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AUSTRALIAN GOVERNMENT

AUSTRALIAN DEFENCE STANDARD

DEF(AUST)8746 / Issue 3

Dated 13 July 2009

SUPERSEDING

DEF(AUST) 8746 Issue 2

Dated 14 Oct 2008

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PRINT DESIGN, DISRUPTIVE PATTERN

SPECIFICATION

*

PUBLISHED UNDER AUTHORITY
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USAGE: Maritime, Land, Air

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DOCUMENT MANAGEMENT INFORMATION

Ownership and responsibility for approval and acceptance of this specification is detailed below.

Sponsoring Defence Group:	Defence Materiel Organisation	
Sponsoring Organisation:	Land Systems Division	
Sponsoring Appointment:	Director Clothing Systems Program Office	
Specification Author:	TA CLOSP0	Approved: 16 April 2009
Approval Authority:	DAAR CLOSP0	Approved: 13 July 2009
Executive Authority:	DCLOSP0	Approved: 13 July 2009

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LIST OF ANNEXES

Annex A	Print Design, Disruptive Pattern Colourways
Annex B	Acronyms

1. SCOPE**1.1. Identification**

- 1.1.1. This document specifies requirements for the Print Design, Disruptive Pattern Colourways and Plain Dyed Colours to be used when specified for use on ADF clothing and equipment.

1.2. System Overview

This specification consists of four different disruptive print colourways:

- | | |
|--------|---|
| Item 1 | Description: Print Design, Disruptive Pattern Print (DPP) |
| Item 2 | Description: Print Design, Disruptive Pattern Desert Print (DPDP) |
| Item 3 | Description: Print Design, Disruptive Pattern Naval Print (DPNP) |
| Item 4 | Description: Print Design, Disruptive Pattern Enemy Print (DPEP) |
| Item 5 | Description: Other Print Designs and Colours as required |

1.3. Document Overview

- 1.3.1. This specification details the minimum acceptable standards of functional and performance requirements for the Print Design, Disruptive Pattern and the means by which satisfaction of these requirements will be verified.
- 1.3.2. All requirements within this specification have an Essential annotation indicating that the stated requirement shall be met by the tender's proposal. Tenders assessed as not complying with any Essential requirements will be excluded from further consideration on grounds that the proposal is technically unsuitable.
- 1.3.3. No part of this document is classified for security purposes.

2. DEFINITIONS AND REFERENCED DOCUMENTS**2.1. Definitions**

- 2.1.1. The Australian Macquarie Dictionary fourth edition, 2005 is the reference source for all terms used in this specification, except for those defined in this Definitions section.
- 2.1.2. **Able, capable.** Requirements that include the adjectives able or capable or adjectives ending in -able or -ible shall be interpreted as being references to extant capabilities of the equipment or system without any form of future modification or enhancement, and all means and facilities to enable the satisfaction of those requirements shall be provided with and considered to be part of the equipment or system.
- 2.1.3. **Colour Standard.** A reference sample authorised by the Design Authority and supplied to the contractor as a guide for colour matching purposes. If any discrepancies arise with measured colour values visual assessment will take precedence.
- 2.1.4. **Material Standard.** Material Standard (if applicable) are provided as a guide only for style, general appearance, handle, finish, workmanship and any other properties not defined in this specification. The specification must be strictly adhered to in all respects for the design characteristics, dimensions and all related detail. Should the specification and material standard be at a variance, the specification shall prevail to the extent of any inconsistency.
- 2.1.5. **Design Authority.** The authority nominated in the Contract as the authority responsible for all matters related to the procurement of the items specified in the document.
- 2.1.6. **Contact Officer.** The person nominated in the tender document as the authority responsible for all matters related to the procurement.
- 2.1.7. **Category of Requirement Annotations**
- 2.1.7.1. **Essential.** An Essential requirement annotation indicates that the stated requirement shall be met by the tenderer's proposal. Tenders assessed as not complying with any

Essential requirements will be excluded from further consideration on grounds that the proposal is technically unsuitable.

- 2.1.7.2. **Very Important.** A Very Important requirement annotation indicates that the stated requirements should be met by the tenderer's proposal. While there is some latitude in meeting the requirement, a major departure from one or more Very Important requirements, or a substantial number of minor departures, would represent a very significant divergence from the Commonwealth's requirement. This divergence may reduce the prospect of a proposal being selected as the preferred or compliant tender. The Commonwealth considers satisfaction of requirements with Very Important annotations to be relatively more significant than satisfaction of requirements with Important annotations.
- 2.1.7.3. **Important.** An Important requirement annotation indicates that the stated requirements should be met by the tenderer's proposal. While there is some latitude in meeting the requirement, a major departure from one or more Important requirements, or a substantial number of minor departures, would represent a significant divergence from the Commonwealth's requirement. This divergence may reduce the prospect of a proposal being selected as the preferred or compliant tender.
- 2.1.7.4. **Desirable.** A Desirable requirement annotation indicates that the stated requirement is perceived by the Commonwealth as beneficial, provided it represents value for money.
- 2.1.7.5. **Advice.** An Advice annotation indicates that the statement provides advice or information to tenderers. An Advice annotation statement does not affect the tender evaluation process.
- 2.1.7.6. A category of requirement annotation shall apply to all sentences in a statement, as well as to the sentence that it follows.
- 2.1.8. **Tenderer's Response.** In the context of the tenderer responding using the facility in Table 2, the following definitions will apply:
- 2.1.8.1. **Exceeds Requirements (ER)** will be interpreted as meaning that the requirement is met and significantly exceeded by the tenderer's offer. The extent of excess and full details of any advantages the tenderer sees arising from the excess should be stated in full in the tenderer's response and reference to the relevant statement in the response indicated in the associated column.
- 2.1.8.2. **Fully Complies (FC)** will be interpreted as meaning that the requirement is met by the tenderer's offer. In the case of an Advice category of requirement this will be interpreted as meaning that the requirement has been read and understood.
- 2.1.8.3. **Partially Complies (PC)** will be interpreted as meaning that the requirement can be met by the tenderer's offer subject to certain qualifications. These qualifications should be stated in full in the tenderer's response and reference to the relevant statement in the response indicated in the associated column.
- 2.1.8.4. **Does Not Comply (NC)** will be interpreted as meaning that the requirement is not met by the tenderer's offer. Full details of the extent of non-compliance should be stated in the tenderer's response and reference to the relevant statement in the response indicated in the associated column.

2.2. Referenced Documents

2.2.1. The following documents form a part of this specification to the extent specified herein.

2.2.2. The latest issue of the following documents at the issue date of this specification shall apply:

Document Numbers Title**Defence Drawings**DE830140000 Disruptive Pattern Print ¹**Standards Australia**AS 1083.1971 Terms for Defects in Woven and Knitted Piece Goods ²

AS/NZS 1580.601.1 Paints and related materials - Methods of test

Method 601.1: Colour – Visual comparison ²

AS/NZS 1580.601.3 Paints and related materials - Methods of test

Method 601.3: Colour - Methods of colour measurement ²AS/NZS 1680.2.0 Interior Lighting ²AS/NZS 1957 Textiles – Care labelling ²AS/NZS 2621 Guide to the Selection of Correct Care Labelling Instructions ²AS/NZS 2622 Textile Products – Fibre Content Labelling ²AS ISO/IEC 17025 General requirements for the Competence of testing and Calibration Laboratories ²**International Standards**ISO 12945 Fabric propensity to surface fuzzing and pilling ²ISO 10528 Commercial laundering for textile fabrics prior to flammability testing ²AATCC Method 79 Absorbency of Bleached Textiles ²**Verification Colour or Material Standards**CS 8305-0176 Combat Colours - Disruptive Pattern Print (DPP) ²CS 8305-0163 Combat Colours - Disruptive Pattern Desert Print (DPDP) ²CS 8305-0284 Combat Colours - Disruptive Pattern Naval Print (DPNP) ²CS 8305-0476 Combat Colours - Disruptive Pattern Enemy Print (DPEP) ²TBA Other print designs and/or colourways as required ²2.2.3. **Order of precedence.** In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. However, nothing in this document supersedes applicable laws and regulations unless a specific exemption has been obtained.¹ Copies of these documents may be obtained from the Contact Officer.² Copies of International and Australian Standard may be obtained from:

Publication Distributor - SAI Global
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 Facsimile: 1300 65 49 49
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3. REQUIREMENTS

3.1. General Requirements – Print Designs

3.1.1. **Design Size.** The design, size and shape of the pattern as defined in DE830140000 shall not be modified, expanded or contracted to suit individual manufacturer's equipment or for any reason, for all items of this specification. [Essential]

3.1.2. **Print Quality.** The print shall be level, with the shapes and colour disbursement matching that of the design defined in DE830140000 for all items of this specification. [Essential]

3.1.3. **Overlap.** Print colours shall not overlap. [Essential]

3.2. Background Colour – Print Designs

3.2.1. **Background.** The Background colour for each colourway as defined in Annex A shall be a pre-dyed base upon which the print colours are applied. [Essential]

3.2.2. **Background Colour.** When tested in accordance with AS 1580.601.1, the Background Colour for each design shall be a close match (rating not exceeding 2) to the Colour Standard. [Essential]

3.2.2.1. **Colour Standards.** The colour standards for the Background Colours are represented by Serial 1.1, 2.1, 3.1 and 4.1 of Annex A for the respective colourway. [Essential]

3.3. Colourways – Print Designs

3.3.1. **Print Colours.** When tested in accordance with AS 1580.601.1, the Print Colours shall be an approximate match (rating not exceeding 3) to the Colour Standard. [Essential]

3.3.1.1. **Print Colour Standards.** The colour standards for the Print Colours are represented in Annex A for the respective colourway. [Essential]

3.3.2. **Disruptive Pattern Print.** The colour standards in serial 1.1 to 1.5 of Annex A shall be mapped to the colour numbers in the print design DE830140000. The colour numbers identified in Annex A correspond to the numbers used to indicate colour in DE830140000. [Essential]

3.3.3. **Disruptive Pattern Desert Print.** The colour standards in serial 2.1 to 2.5 of Annex A shall be mapped to the colour numbers in the print design DE830140000. The colour numbers identified in Annex A correspond to the numbers used to indicate colour in DE830140000. [Essential]

3.3.4. **Disruptive Pattern Naval Print.** The colour standards in serial 3.1 to 3.5 of Annex A shall be mapped to the colour numbers in the print design DE830140000. The colour numbers identified in Annex A correspond to the numbers used to indicate colour in DE830140000. [Essential]

3.3.5. **Disruptive Pattern Enemy Print.** The colour standards in serial 4.1 to 4.5 of Annex A shall be mapped to the colour numbers in the print design DE830140000. The colour numbers identified in Annex A correspond to the numbers used to indicate colour in DE830140000. [Essential]

3.3.6. **Disruptive Pattern – Other Prints and Colours** (as required). The colour standards in Item 5 of Annex A shall be mapped to the colour numbers in the print design DE830140000. The colour numbers identified in Annex A correspond to the numbers used to indicate colour in DE830140000. [Essential]

3.3.7. **Mapping.** Mapping of the colours and shapes of the print design DE830140000 shall not be altered. [Essential]

3.3.8. **Near Infrared – Item 1.** The Near Infrared Reflectance (NIR) of the finished Disruptive Pattern Print material shall match those values stated in Table 1 when tested in accordance with AS/NZS 1580.601.3 across the wavelength range of 400 to 1100 nm. [Essential]

Note: Samples shall be mounted in a manner that ensures that the reflectance from any sample holder is minimised and is less than 10% at all wavelengths when testing reflectance.

Percentage reflectance measurements shall be taken to the second decimal place. Rounding of values to whole numbers shall occur only at the final stage of calculation.

Table 1 - DPP Near Infrared Reflectance Values

Serial	Colour	Min Percentage Reflectance at 800 ± 10 nm	Max Percentage Reflectance at 800 ± 10 nm	Max change by 1050 nm
1	DPP Background Khaki	50%	60%	14%
2	DPP Dark Grey Green	20%	30%	14%
Percentage reflectance decrease from DPP Background Khaki				
3	DPP Dull Leaf Green	7% ± 2%		
4	DPP Light Orange Brown	14% ± 2%		
5	DPP Dark Brown	19% ± 2%		

- 3.3.9. **Strike Off.** A strike off shall be submitted to the Contract Authority for colour and registration approval. [Essential]

4. REQUIREMENTS VERIFICATION

- 4.1. Where referenced in 2, the means of verification of each requirement shall be by testing, demonstration, analysis, inspection and other special qualification methods.
- 4.1.1. **Test (T).** A test is the operation of the system, or a part of the system, or equipment using instrumentation or other special test equipment to collect data for later evaluation. The Commonwealth often collects verification test data through the performance of trials. Trials shall be conducted in accordance with the appropriate Test and Evaluation Management Plan.
- 4.1.2. **Demonstration (D).** A demonstration is the operation of the system, or a part of the system, or equipment, that relies on observable functional operation not requiring the use of instrumentation, special test equipment, or subsequent analysis.
- 4.1.3. **Analysis (A).** Analysis is the processing of accumulated data obtained from other qualification methods or calculations. Examples of analysis include reduction, interpolation, or extrapolation of test results.
- 4.1.4. **Inspection (I).** Inspection is the visual examination of system components, documentation etc.
- 4.1.5. **Other (O).** Other means of verification may include the use of special tools or facilities, application of special techniques, procedures, acceptance limits, use of standard samples, pre-production or periodic production samples, pilot models, pilot lots or use of jury panels.
- 4.2. The means of verification of each individual requirement is indicated in Table 2 – Requirements Verification and Tenderer's Response. A cross in the table column headed by the initial letter of Test, Demonstration, Analysis, Inspection or Other indicates that the requirement in that row will be verified by the method indicated; reference to more details of the method of verification being in the associated column.

5. REQUIREMENTS TRACEABILITY

Reserved.

6. INSPECTION AND TESTING

6.1. Inspection

6.1.1. **Inspection of Cloth:** The visual inspection shall be conducted under the minimum conditions specified in AS 1680.2.0 Table 2. The normal viewing distance shall be one metre. Defects listed IAW AS 1083:1971 shall be marked on the roll and identified on the swing ticket. A length of 0.1 m shall be deducted for every defect in each roll accepted. Where a defect continues for more than 0.1 m in the warp, a mark shall be inserted at each end of the defect and the deduction shall be the distance between these markers.

6.1.2. **Acceptable Quality:** Any roll of cloth containing an average of more than one defect (as stated in AS 1083) for each 10 m length may be rejected. All accepted pieces shall be permanently marked on the inspection ticket by the contractor's Inspecting Officer. Any piece of cloth rejected shall be suitably marked. Each roll shall contain no more than two pieces, neither of which shall be less than 10 m in length.

6.2. Testing

6.2.1. Initial testing of the cloth shall occur at pre-production sample stage and shall be followed by a testing frequency as determined under contract.

Testing shall be current, traceable and carried out by an AS ISO/IEC 17025 accredited laboratory. Some of the national laboratory accrediting bodies providing accreditation to ISO 17025 standard include NATA (Australia), CNAL (China), HKAS (Hong Kong, China), IANZ (New Zealand), UKAS (United Kingdom) and A2LA (United States of America).

7. NOTES

7.1. Tenderer's Response

7.1.1. Provision has been made for the tenderer to indicate their response to individual requirements in Table 2 of this document. The tenderer should place crosses in the table columns headed by the initial letters of Exceeds Requirement (ER), Fully Compliant (FC), Partially Compliant (PC), or Non-Compliant (NC) to indicate the way in which their offer satisfies the requirement indicated in each row.

7.1.2. The provision of responses in the format of Table 2 does not relieve the tenderer of obligations stated in the tendering documentation.

7.2. Packaging for Delivery

Reserved.

Table 2 – Requirements Verification and Tenderer's Response

Serial	Requirements	Category	T	D	A	I	O	Verification Details (or References)	E R	F C	P C	N C	Tenderer's Comments (or References)
3.1	General Requirements – Print Designs												
3.1.1	Design Size	Essential			x	x		Visual examination of sample and analysis in accordance with drawing DE830140000.					
3.1.2	Print Quality	Essential			x	x		Visual examination of sample and analysis in accordance with drawing DE830140000.					
3.1.3	Overlap	Essential				x		Visual examination of sample.					
3.2	Background Colour – Print Designs												
3.2.1	Background	Essential				x		Visual examination of sample in accordance with Annex A.					
3.2.2	Background Colour	Essential			x	x		Visual examination of sample and analysis in accordance with AS/NZS 1580.601.1 and Annex A.					
3.2.2.1	Colour Standards	Essential				x		Visual examination of sample.					
3.3	Colourways – Print Designs												
3.3.1	Print Colours	Essential			x	x		Visual examination of sample and analysis in accordance with AS/NZS 1580.601.1 and Annex A.					
3.3.1.1	Print Colour Standards	Essential				x		Visual examination of sample.					

Serial	Requirements	Category	T	D	A	I	O	Verification Details (or References)	E R	F C	P C	N C	Tenderer's Comments (or References)
3.3.2	Disruptive Pattern Print	Essential			x	x		Visual examination of sample and analysis in accordance with AS/NZS 1580.601.1 and Annex A.					
3.3.3	Disruptive Pattern Desert Print	Essential			x	x		Visual examination of sample and analysis in accordance with AS/NZS 1580.601.1 and Annex A.					
3.3.4	Disruptive Pattern Naval Print	Essential			x	x		Visual examination of sample and analysis in accordance with AS/NZS 1580.601.1 and Annex A.					
3.3.5	Disruptive Pattern Enemy Print	Essential			x	x		Visual examination of tender or pre production sample and analysis in accordance with AS/NZS 1580.601.1 and Annex A.					
3.3.6	Disruptive Pattern – Other Prints and Colours				x	x		Visual examination of sample and analysis in accordance with AS/NZS 1580.601.1 and Annex A.					
3.3.7	Mapping	Essential			x			Analysis of sample in accordance with the drawing DE830140000.					
3.3.8	Near Infrared – Item 1	Essential			x			Analysis of sample and analysis in accordance with AS/NZS 1580.601.3 and Table 1.					
3.3.9	Strike Off	Essential			x	x		Visual examination of sample and analysis in accordance with AS/NZS 1580.601.1 and Annex A.					

ANNEX A

PRINT DESIGN, DISRUPTIVE PATTERN COLOURWAYS

ITEM	COLOUR	COLOUR STANDARD	COLOUR No. (refer Print Design)
Item 1: Disruptive Pattern Print			
1.1	Background Khaki	CS 8305-0176	Colour 1
1.2	Dark Grey Green	CS 8305-0176	Colour 2
1.3	Dull Leaf Green	CS8305-0176	Colour 3
1.4	Light Orange Brown	CS 8305-0176	Colour 4
1.5	Dark Brown	CS 8305-0176	Colour 5
Item 2: Disruptive Pattern Desert Print			
2.1	Background Desert Tan	CS 8305-0163	Colour 1
2.2	Light Leaf Green	CS 8305-0163	Colour 2
2.3	Light Grey	CS 8305-0163	Colour 3
2.4	Mid Brown	CS 8305-0163	Colour 4
2.5	Red Grey	CS 8305-0163	Colour 5
Item 3: Disruptive Pattern Naval Print			
3.1	Battleship Grey	CS 8305-0284	Colour 1
3.2	Medium Grey	CS 8305-0284	Colour 2
3.3	Light Grey	CS 8305-0284	Colour 3
3.4	Black	CS 8305-0284	Colour 4
3.5	Green	CS 8305-0284	Colour 5
Item 4: Disruptive Pattern Enemy Print			
4.1	Light Grey	CS 8305-0476	Colour 1
4.2	Light Brown	CS 8305-0476	Colour 2
4.3	Light Orange Brown	CS 8305-0476	Colour 3
4.4	Pilbara Red	CS 8305-0476	Colour 4
4.5	Dark Brown	CS 8305-0476	Colour 5
Item 5: Other Print Designs & Colours as required			
5.1	TBA	TBA	TBA

ANNEX B

ACRONYMS

A2LA	American Association for Laboratory Accreditation
ADF	Australian Defence Force
AFP	Australian Federal Police
AS	Australian Standard
AS/NZS	Australian /New Zealand Standard
CLOSP0	Clothing Systems Program Office
CNAL	China National Accreditation Board of Laboratories
CS	Colour Standard
DAAR	Design Acceptance Authority Representative
DCLOSP0	Director CLOSP0
DPDP	Disruptive Pattern Desert Printed
DPEP	Disruptive Pattern Enemy Printed
DPNP	Disruptive Pattern Navy Printed
DPP	Disruptive Pattern Printed
HKAS	Hong Kong Accreditation Service
IANZ	International Accreditation New Zealand
ISO	International Organization for Standardization
NATA	National Association of testing Authorities Australia
NATO	North Atlantic Treaty Organisation
NIR	Near Infrared
NSC	NATO Supply Classification
NSN	NATO Stock Number
TA	Technical Advisor
TBA	To Be Advised
UKAS	United Kingdom Accreditation Service
UN	United Nations

DOCUMENT IMPROVEMENT PROPOSAL
DEF(AUST)8746 – PRINT DESIGN, DISRUPTIVE PATTERN
SPECIFICATION

The purpose of this form is to solicit comments which will assist in maintaining the document named above as both practical and realistic. When completed, the form and any additional papers, should be forwarded to the Sponsoring Appointment named in this document or to:

Assistant Program Co-ordinator
Army Standardisation
Land Engineering Agency
3rd Floor, Defence Plaza Melbourne
661 Bourke Street
MELBOURNE VIC 3000

Note: Comments submitted do not constitute or imply authorization to waive any requirement of the document or to amend contractual requirements.

1. **Has any part of this document created problems or required interpretation in use? Please state paragraph no(s) and any rewording suggested.**
2. **Has any new technology rendered any process obsolete? Suggestions supported by examples are welcome where the new process/hardware has proved satisfactory.**
3. **Comments on any requirements considered to be too rigid.**
4. **Remarks (attach any relevant data which may be of use in improving this document).**

REQUESTS FOR DOCUMENTS

Requests for copies of this Standard, or certain of the listed Applicable Documents, may be directed to the appropriate source listed below:

DEPARTMENT OF DEFENCE (Maritime)

Director Naval Platform Systems
Department of Defence (Navy Office)
Campbell Park Offices (CP4-SP-013)
CANBERRA ACT 2600
Attention: NSTDC
Telephone: (06) 266 2906
Facsimile: (06) 266 2105

DEPARTMENT OF DEFENCE (Land)

Land Engineering Agency
Attention: Technical Data Centre
5th Floor, Defence Plaza Melbourne
661 Bourke St
MELBOURNE VIC 3000
Email: LEATEchnicalData@drnex.defence.gov.au
Telephone: (03) 9282 7404
Facsimile: (03) 9622 2942

DEPARTMENT OF DEFENCE (Air)

Aerospace Technical Standards Document Centre (ATSDC)
Common Services System Support Office (CSSSO)
Building L7-1
RAAF Williams
Laverton VIC 3027
Telephone: (03) 9256 4236
Facsimile: (03) 9256 4888

DEFENCE RESTRICTED NETWORK (DRN)

Army Standardisation:

<http://vbmweb.sor.defence.gov.au/SPECS/Triservice/Directory.htm>

Aerospace Technical Standards Document Centre:

<http://wilap006.sor.defence.gov.au/Specs/defence.asp>

ADF Maritime Material Requirements Set:

<http://defweb.cbr.defence.gov.au/navsyscom/mrs/HomePage.htm>

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Contract No. CBT/CLOSP0/09/02

ANNEX B

NOT USED

Contract No. CBT/CLOSP0/09/02

ANNEX C

NOT USED

Contract No. CBT/CLOSP0/09/02

ANNEX D

NOT USED

Contract No. CBT/CLOSP0/09/02

ANNEX E

NOT USED

Contract No. CBT/CLOSP009/02

ATTACHMENT B

PRICE AND DELIVERY SCHEDULE

ITEM	ITEM DESCRIPTION	SIZE	QTY	UNIT PRICE					GST APPLICABLE (in \$A)	UNIT PRICE GST INCLUSIVE (in \$A)	TOTAL PRICE			DELIVERY POINT	DELIVERY DATE
				ITEMS SOURCED IN AUSTRALIA (in \$A)	ITEMS SOURCED OVERSEAS						ITEMS SOURCED IN AUSTRALIA (in \$A)	ITEMS SOURCED OVERSEAS (foreign currency component) (in \$A)	ITEMS SOURCED OVERSEAS (in \$A)		
					UNIT PRICE DUTY FREE (in foreign currency)	UNIT PRICE DUTY FREE (in \$A)	CUSTOM S DUTY (in \$A)	UNIT PRICE DUTY PAID (in \$A)							
(a)	(b)	(b1)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
1	Pre-Production Samples (Refer SOW clause 7 and Annex A)														
1a	Coat, DPCU	100R	2												
1b	Trousers, DPCU	100R	2												
1c	Coat, DPCU, Fire Retardant	100R	2												
1d	Trouser, DPCU, Fire Retardant	100R	2												
1e	Coat, DPCU	100R	2												
1f	Trousers, DPCU	100R	2												
2	Coat, DPCU (refer SOW, Annex A – ARMY(AUST)6542, DEF(AUST) 10760 and DEF(AUST) 8746)		7,852												
COMMERCIAL-IN-CONFIDENCE															
COMMERCIAL-IN-CONFIDENCE															
COMMERCIAL-IN-CONFIDENCE															

ATTACHMENT B

ITEM	ITEM DESCRIPTION	SIZE	QTY	UNIT PRICE				GST APPLICABLE (in \$A)	UNIT PRICE GST INCLUSIVE (in \$A)	TOTAL PRICE			DELIVERY POINT	DELIVERY DATE	
				ITEMS SOURCED IN AUSTRALIA (in \$A)	ITEMS SOURCED OVERSEAS					ITEMS SOURCED IN AUSTRALIA (in \$A)	foreign currency component	(in \$A)			
					UNIT PRICE DUTY FREE (in foreign currency)	UNIT PRICE DUTY FREE (in \$A)	CUSTOM S DUTY (in \$A)								UNIT PRICE DUTY PAID (in \$A)
(a)	(b)	(b1)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
2a	661538615 Coat, DPDU	80 S	330	C-I-C					COMMERCIAL-IN-CONFIDENCE		C-I-C			COMMERCIAL-IN-CONFIDENCE	
2b	661538722 Coat, DPDU	85S	360												
2c	661538723 Coat, DPDU	90S	900												
2d	661538724 Coat, DPDU	95S	500												
2e	661538727 Coat, DPDU	110S	1												
2f	661538728 Coat, DPDU	115S	1												
2g	661538725 Coat, DPDU	100S	400												

ATTACHMENT B

ITEM	ITEM DESCRIPTION	SIZE	QTY	UNIT PRICE					GST APPLICABLE (in \$A)	UNIT PRICE GST INCLUSIVE (in \$A)	TOTAL PRICE			DELIVERY POINT	DELIVERY DATE	
				ITEMS SOURCED IN AUSTRALIA (in \$A)	ITEMS SOURCED OVERSEAS						ITEMS SOURCED IN AUSTRALIA (in \$A)	(foreign currency component)	ITEMS SOURCED OVERSEAS (in \$A)			
					UNIT PRICE DUTY FREE (in foreign currency)	UNIT PRICE DUTY FREE (in \$A)	CUSTOM S DUTY (in \$A)	UNIT PRICE DUTY PAID (in \$A)								
(a)	(b)	(b1)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	
2h	661538730 Coat, DPDU	80R	220	C-I-C										COMMERCIAL-IN- CONFIDENCE		
2i	661538731 Coat, DPDU	85R	340													
2j	661538732 Coat, DPDU	90R	1800													
2k	661538733 Coats, DPDU	95R	1600													
2l	661538734 Coat, DPDU	100R	800													
2m	661538735 Coat, DPDU	105R	600													
3	Trouser, DPDU (refer SOW, Annex A – ARMY(AUST)6542 DEF(AUST) 10760 and DEF(AUST) 8746)		5,862													

ATTACHMENT B

ITEM	ITEM DESCRIPTION	SIZE	QTY	UNIT PRICE					GST APPLICABLE (in \$A)	UNIT PRICE GST INCLUSIVE (in \$A)	TOTAL PRICE			DELIVERY POINT	DELIVERY DATE
				ITEMS SOURCED IN AUSTRALIA (in \$A)	ITEMS SOURCED OVERSEAS	UNIT PRICE DUTY FREE (in foreign currency)	UNIT PRICE DUTY FREE (in \$A)	CUSTOMS DUTY (in \$A)			UNIT PRICE DUTY PAID (in \$A)	ITEMS SOURCED IN AUSTRALIA (in \$A)	(foreign currency component)		
(a)	(b)	(b1)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
3a	661538626 Trousers, DPDU	80S	330	C-I-C						COMMERCIAL-IN-CONFIDENCE	C-I-C			COMMERCIAL-IN-CONFIDENCE	
3b	661538627 Trousers, DPDU	85S	900												
3c	661538628 Trousers, DPDU	90S	470												
3d	661538629 Trousers, DPDU	95S	402												
3e	661538691 Trousers, DPDU	90R	700												
3f	661538693 Trousers, DPDU	95R	1400												
3g	661538695 Trousers, DPDU	100R	1300												

ATTACHMENT B

ITEM	ITEM DESCRIPTION	SIZE	QTY	UNIT PRICE				GST APPLICABLE (in \$A)	UNIT PRICE GST INCLUSIVE (in \$A)	TOTAL PRICE			DELIVERY POINT	DELIVERY DATE	
				ITEMS SOURCED IN AUSTRALIA (in \$A)	ITEMS SOURCED OVERSEAS					ITEMS SOURCED IN AUSTRALIA (in \$A)	ITEMS SOURCED OVERSEAS				
					UNIT PRICE DUTY FREE (in foreign currency)	UNIT PRICE DUTY FREE (in \$A)	CUSTOM S DUTY (in \$A)				UNIT PRICE DUTY PAID (in \$A)	(foreign currency component)			(in \$A)
(a)	(b)	(b1)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
3h	661538696 Trouser, DPDU	105R	360												
4	Coat, DPCU, Fire Retardant (refer SOW, Annex A – DEF(AUST) 10759; DEF(AUST) 10761 and DEF(AUST) 8746)		950	C-I-C					COMMERCIAL-IN- CONFIDENCE		C-I-C			COMMERCIAL-IN- CONFIDENCE	
4a	661511193 Coat, DPCU, Fire Retardant	80S	10												
4b	661511194 Coat, DPCU, Fire Retardant	85S	160												
4c	661511195 Coat, DPCU, Fire Retardant	90S	60												

ATTACHMENT B

ITEM	ITEM DESCRIPTION	SIZE	QTY	UNIT PRICE				GST APPLICABLE (in \$A)	UNIT PRICE GST INCLUSIVE (in \$A)	TOTAL PRICE			DELIVERY POINT	DELIVERY DATE		
				ITEMS SOURCED IN AUSTRALIA (in \$A)	ITEMS SOURCED OVERSEAS					ITEMS SOURCED IN AUSTRALIA (in \$A)	ITEMS SOURCED OVERSEAS	(foreign currency component) (in \$A)				
					UNIT PRICE DUTY FREE (in foreign currency)	UNIT PRICE DUTY FREE (in \$A)	CUSTOM S DUTY (in \$A)								UNIT PRICE DUTY PAID (in \$A)	
(a)	(b)	(b1)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	
4d	661511196 Coat, DPCU, Fire Retardant	95S	120	C-I-C												
4e	661511197 Coat, DPCU, Fire Retardant	100S	30													
4f	661511198 Coat, DPCU, Fire Retardant	85R	120													
4g	661511199 Coat, DPCU, Fire Retardant	90R	40													
4h	661511200 Coat, DPCU, Fire Retardant	95R	320													
4i	661511206 Coat, DPCU, Fire Retardant	95L	30													
4j	661511208 Coat, DPCU, Fire Retardant	105L	20													
COMMERCIAL-IN-CONFIDENCE										C-I-C				COMMERCIAL-IN-CONFIDENCE		

ATTACHMENT B

ITEM	ITEM DESCRIPTION	SIZE	QTY	UNIT PRICE					GST APPLICABLE (in \$A)	UNIT PRICE, GST INCLUSIVE (in \$A)	TOTAL PRICE			DELIVERY POINT	DELIVERY DATE		
				ITEMS SOURCED IN AUSTRALIA (in \$A)	ITEMS SOURCED OVERSEAS						ITEMS SOURCED IN AUSTRALIA (in \$A)	ITEMS SOURCED OVERSEAS (foreign currency component)	(in \$A)				
					UNIT PRICE DUTY FREE (in foreign currency)	UNIT PRICE DUTY FREE (in \$A)	CUSTOMS DUTY (in \$A)	UNIT PRICE DUTY PAID (in \$A)									
(a)	(b)	(b1)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)		
4k	661511210 Coat, DPCU, Fire Retardant	115L	40	C-I-C					COMMERCIAL-IN-CONFIDENCE	C-I-C				COMMERCIAL-IN-CONFIDENCE			
5	Trouser, DPCU, Fire Retardant (refer SOW, Annex A – DEF(AUST)10759, DEF(AUST) 10761 and DEF(AUST)8746)		120														
5a	661511223 Trouser, DPCU, Fire Retardant	110R	80														
5b	661511224 Trouser, DPCU, Fire Retardant	115R	40														

ATTACHMENT B

ITEM	ITEM DESCRIPTION	SIZE	QTY	UNIT PRICE					GST APPLICABLE (in \$A)	UNIT PRICE GST INCLUSIVE (in \$A)	TOTAL PRICE			DELIVERY POINT	DELIVERY DATE
				ITEMS SOURCED IN AUSTRALIA (in \$A)	ITEMS SOURCED OVERSEAS						ITEMS SOURCED IN AUSTRALIA (in \$A)	(foreign currency component)	ITEMS SOURCED OVERSEAS (in \$A)		
					UNIT PRICE DUTY FREE (in foreign currency)	UNIT PRICE DUTY FREE (in \$A)	CUSTOMS DUTY (in \$A)	UNIT PRICE DUTY PAID (in \$A)							
(a)	(b)	(b1)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
6	Coat, DPCU (refer SOW, Annex A – ARMY(AUST)6542 DEF(AUST)10760 and DEF(AUST)8746)		34,100	C-I-C											COMMERCIAL-IN-CONFIDENCE
6a	661521015 Coat, DPCU	80S	3000												
6b	661521016 Coat, DPCU	80R	650												
6c	661521017 Coat, DPCU)	85S	2,850												
6d	661521018 Coat, DPCU	85R	4,800												

COMMERCIAL-IN-CONFIDENCE

C-I-C

COMMERCIAL-IN-CONFIDENCE

ATTACHMENT B

ITEM	ITEM DESCRIPTION	SIZE	QTY	UNIT PRICE				GST APPLICABLE (in \$A)	UNIT PRICE GST INCLUSIVE (in \$A)	TOTAL PRICE			DELIVERY POINT	DELIVERY DATE				
				ITEMS SOURCED IN AUSTRALIA (in \$A)	ITEMS SOURCED OVERSEAS					ITEMS SOURCED IN AUSTRALIA (in \$A)	(foreign currency component)	ITEMS SOURCED OVERSEAS (in \$A)						
					UNIT PRICE DUTY FREE (in foreign currency)	UNIT PRICE DUTY FREE (in \$A)	CUSTOM S DUTY (in \$A)								UNIT PRICE DUTY PAID (in \$A)			
(a)	(b)	(b1)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)			
6e	661521019 Coat, DPCU	90S	3,000	C-I-C					COMMERCIAL-IN-CONFIDENCE	COMMERCIAL-IN-CONFIDENCE	C-I-C			COMMERCIAL-IN-CONFIDENCE				
6f	661521020 Coat, DPCU	90R	7,000															
6g	661521021 Coat, DPCU	95S	4,200															
6h	661521022 Coat, DPCU	95R	3,600															
6i	661521023 Coat, DPCU	95L	2,200															
6j	661521024 Coat, DPCU	100S	1,200															
6k	661521025 Coat, DPCU	100R	1,600															
7	Trouser, DPCU (refer SOW, Annex A - ARMY(AUST)6542 DEF(AUST)10760 and DEF(AUST)8746)		55,210															

ATTACHMENT B

ITEM	ITEM DESCRIPTION	SIZE	QTY	UNIT PRICE				GST APPLICABLE (in \$A)	UNIT PRICE GST INCLUSIVE (in \$A)	TOTAL PRICE			DELIVERY POINT	DELIVERY DATE	
				ITEMS SOURCED IN AUSTRALIA (in \$A)	ITEMS SOURCED OVERSEAS					ITEMS SOURCED IN AUSTRALIA (in \$A)	ITEMS SOURCED OVERSEAS				
					UNIT PRICE DUTY FREE (in foreign currency)	UNIT PRICE DUTY FREE (in \$A)	CUSTOM S DUTY (in \$A)				UNIT PRICE DUTY PAID (in \$A)	(foreign currency component)			(in \$A)
(a)	(b)	(b1)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
7a	661521048 Trousers, DPCU	75S	410	C-I-C					COMMERCIAL-IN-CONFIDENCE	C-I-C				COMMERCIAL-IN-CONFIDENCE	
7b	661521051 Trousers, DPCU	80S	9,800												
7c	661521052 Trousers, DPCU	80R	1,100												
7d	661521053 Trousers, DPCU	85S	3,800												
7e	661521054 Trousers, DPCU	85R	4,600												
7f	661521055 Trousers, DPCU	85L	2,950												
7g	661521056 Trousers, DPCU	90S	3,700												

Contract No. CBT/CLOSP0/09/02

ATTACHMENT B

ITEM	ITEM DESCRIPTION	SIZE	QTY	UNIT PRICE				GST APPLICABLE (in \$A)	UNIT PRICE GST INCLUSIVE (in \$A)	TOTAL PRICE			DELIVERY POINT	DELIVERY DATE		
				ITEMS SOURCED IN AUSTRALIA (in \$A)	ITEMS SOURCED OVERSEAS					ITEMS SOURCED IN AUSTRALIA (in \$A)	ITEMS SOURCED OVERSEAS (foreign currency component) (in \$A)	ITEMS SOURCED OVERSEAS				
					UNIT PRICE DUTY FREE (in foreign currency)	UNIT PRICE DUTY FREE (in \$A)	CUSTOMS DUTY (in \$A)								UNIT PRICE DUTY PAID (in \$A)	
(a)	(b)	(b1)	(c)	(d)	(e)	(f)	(g)	(h)	COMMERCIAL-IN-CONFIDENCE	COMMERCIAL-IN-CONFIDENCE	(k)	(l)	(m)	(n)	(o)	
9	Warranty (refer conditions of contract clause 8.2)			C-I-C							C-I-C				COMMERCIAL-IN-CONFIDENCE	
10	List of Intellectual Property (refer conditions of contract, clause 4.2)		1													
11	Test Reports (refer SOW, clause 6.3)															
12	Disposal Requirements Report (refer SOW, clause 4.4)		1													
CONTRACT PRICE (GST Inclusive)										COMMERCIAL-IN-CONFIDENCE						

Note: Fabric to be sourced from C-I-C and manufacture of garments to occur at Australian Defence Apparel's manufacturing facility in Bendigo Victoria Australia.

C-I-C

ATTACHMENT B

ITEM	ITEM DESCRIPTION	SIZE	QTY	UNIT PRICE				GST APPLICABLE (in \$A)	UNIT PRICE GST INCLUSIVE (in \$A)	TOTAL PRICE			DELIVERY POINT	DELIVERY DATE	
				ITEMS SOURCED IN AUSTRALIA (in \$A)	ITEMS SOURCED OVERSEAS					ITEMS SOURCED IN AUSTRALIA (in \$A)	(foreign currency component)	(in \$A)			
					UNIT PRICE DUTY FREE (in foreign currency)	UNIT PRICE DUTY FREE (in \$A)	CUSTOM S DUTY (in \$A)								UNIT PRICE DUTY PAID (in \$A)
(a)	(b)	(b1)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
7h	661521057 Trouser, DPCU	90R	11,500	C-I-C					COMMERCIAL-IN-CONFIDENCE	C-I-C				COMMERCIAL-IN-CONFIDENCE	
7i	661521058 Trouser, DPCU	90L	4,900												
7j	661521059 Trouser, DPCU	95S	3,000												
7k	661521060 Trouser, DPCU	95R	1,900												
7l	661521061 Trouser, DPCU	95L	3,350												
7m	661521062 Trouser, DPCU	100S	1,100												
7n	661521063 Trouser, DPCU	100R	900												
7o	661521064 Trouser, DPCU	100L	2,200												
8	CMCA (refer SOW, clause 3.7)														

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ATTACHMENT B

Note: For payments made within 10 days receipt of a correctly rendered invoice in accordance with clause 6.3 of the Conditions of Contract, a discount of C-I-C will apply.

ATTACHMENT B
DELIVERY SCHEDULE

1. COATS

Week	Quantity (Units)
1	COMMERCIAL-IN-CONFIDENCE
2	
3 onwards	

Note: Sizes and quantities to be advised during contract period.

2. TROUSERS

Week	Quantity (Units)
1	COMMERCIAL-IN-CONFIDENCE
2	
3 onwards	

Note: Sizes and quantities to be advised during contract period.

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ATTACHMENT C

SCHEDULE OF PRICES FOR FURTHER QUANTITIES AND OPTIONAL EXTRAS

ITEM	ITEM DESCRIPTION	QTY (see Note 2)	UNIT PRICE					GST APPLICABLE (in \$A)	UNIT PRICE GST INCLUSIVE (in \$A)	TOTAL PRICE		DELIVERY POINT	DELIVERY DATE (from exercise of option by Commonwealth in accordance with clause 1.7 of conditions of contract)	
			ITEMS SOURCED IN AUSTRALIA	ITEMS SOURCED OVERSEAS						ITEMS SOURCED IN AUSTRALIA	ITEMS SOURCED OVERSEAS			
				(in \$A)	UNIT PRICE DUTY FREE (in foreign currency)	UNIT PRICE DUTY FREE (in \$A)	CUSTOM S DUTY (in \$A)							UNIT PRICE DUTY PAID (in \$A)
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
1	DPCU Coal (refer SOW, Annex A – ARMY(AUST)6542; DEF(AUST)10760 and DEF(AUST)8746)	43,450	C-I-C					COMMERCIAL-IN- CONFIDENCE	C-I-C				COMMERCIAL-IN-CONFIDENCE	
2	DPCU Coat (Fire Retardant) (refer SOW, Annex A – DEF(AUST)10759, DEF(AUST)10761 and DEF(AUST)8746)	65												
3	DPCU Trousers (refer SOW, Annex A – ARMY(AUST)6542; DEF(AUST)10760, and DEF(AUST)8746)	49,940												

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ATTACHMENT C

ITEM	ITEM DESCRIPTION	QTY (see Note 2)	UNIT PRICE					GST - APPLICABLE (in \$A)	UNIT PRICE GST INCLUSIVE (in \$A)	TOTAL PRICE			DELIVERY POINT	DELIVERY DATE (from exercise of option by Commonwealth in accordance with clause 1.7 of conditions of contract)
			ITEMS SOURCED IN AUSTRALIA	ITEMS SOURCED OVERSEAS						ITEMS SOURCED IN AUSTRALIA	ITEMS SOURCED OVERSEAS			
				UNIT PRICE DUTY FREE (in foreign currency)	UNIT PRICE DUTY FREE (in \$A)	CUSTOM S DUTY (in \$A)	UNIT PRICE DUTY PAID (in \$A)							
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
4	DPDU Coat (refer SOW, Annex A – ARMY(AUST)6542; DEF(AUST)10760 and DEF(AUST)8746)	23,080	C-I-C					COMMERCIAL-IN- CONFIDENCE	C-I-C				COMMERCIAL-IN-CONFIDENCE	
5	DPDU Trouser (refer SOW, Annex A – ARMY(AUST)6542; DEF(AUST)10760 and DEF(AUST)8746)	22,360												

Note: Fabnc to be sourced from COMMERCIAL-IN-CONFIDENCE and manufacture of garments to occur at Australian Defence Apparel's manufacturing facility in Bendigo Victoria Australia.

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ATTACHMENT C DELIVERY SCHEDULE

1. COATS

Week	Quantity (Units)
1	COMMERCIAL-IN-CONFIDENCE
2	
3 onwards	

Note: Sizes and quantities to be advised during contract period.

2. TROUSERS

Week	Quantity (Units)
1	COMMERCIAL-IN-CONFIDENCE
2	
3 onwards	

Note: Sizes and quantities to be advised during contract period.

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ATTACHMENT D

INTELLECTUAL PROPERTY SCHEDULE

Note to Contractor: Attachment D will be completed as part of the Contract.

Item No.	Description	Rights Acquired by the Commonwealth	Commonwealth IP / Third Party IP
(a)	(b)	(c)	(d)
		use, maintain, dispose	
		use, maintain, dispose	
		use, maintain, dispose	

Notes to Table:

Column (a): This should be in a simple numerical sequence.

Column (b): Short description of the IP and the items of the Supplies to which it relates.

Column (c): IP rights granted to the Commonwealth (i.e. use, maintain and dispose). Where Commonwealth IP is used by the Contractor, this column will be blank.

Column (d): Specify whether there is any Commonwealth IP or Third Party IP Incorporated into the product / component or relevant component.

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ATTACHMENT E

NOT USED

Contract No. CBT/CLOSP0/09/02

ATTACHMENT F

NOT USED

Contract No. CBT/CLOSPQ/09/02

ATTACHMENT G

COMMERCIAL-IN-CONFIDENCE INFORMATION

Item	Title	Reason for classification	Party for whom the information is Commercial-in-Confidence
1	Price and Delivery Schedules at Attachments B and C	Commercially Sensitive	Contractor
2	Source of Fabric and Location for Manufacture Identified in the Notes to Attachment B and C	Commercially Sensitive	Contractor
3	Insurance Details	Commercially Sensitive	Contractor
4	Specifications at Annex A to SOW	Commercially Sensitive	Commonwealth

ATTACHMENT H

GLOSSARY

1. ACRONYMS AND ABBREVIATIONS

Abbreviation	Description
A.B.N.	Australian Business Number
A.C.N.	Australian Company Number
A.R.B.N.	Australian Registered Business Number
ABS	Australian Bureau of Statistics
ADF	Australian Defence Force
ATO	Australian Taxation Office
CEI	Chief Executive Instructions
CM	Configuration Management
CMCA	Contractor Managed Commonwealth Assets
COMSEC	Communications Security
COTS	Commercial-Off-The-Shelf
CPGs	Commonwealth Procurement Guidelines – December 2008
DI(G)	Defence Instruction (General)
DMO	Defence Materiel Organisation
DPCU	Disruptive Pattern Camouflage Uniform
DPDP	Disruptive Pattern Desert Print
DPDU	Disruptive Pattern Desert Uniform
DPI	Departmental Personnel Instruction
DPP	Disruptive Pattern Print
DPPM	Defence Procurement Policy Manual
DPU	Disruptive Pattern Uniforms
DSM	Defence Security Manual
DWRM	Defence Workplace Relations Manual
ED	Effective Date
G&A	General and Administrative
GST	Australian Goods and Services Tax
ILS	Integrated Logistics Support
IP	Intellectual Property
JAS-ANZ	Joint Accreditation System for Australia and New Zealand
MOTS	Military-Off-The-Shelf
NDI	Non-Development Item
OEM	Original Equipment Manufacturer
PHS&T	Packaging, Handling, Storage and Transportation
PPS	Pre-Production Sample
PSR	Project Status Reports

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ATTACHMENT H

Abbreviation	Description
QA	Quality Assurance
QMS	Quality Management System
RFD	Request for Deviation
RFT	Request For Tender
S&TE	Support and Test Equipment
SDSS	Standard Defence Supply System
SE	Systems Engineering
SME	Small Medium Enterprises
SOW	Statement of Work
TD	Technical Data
TDP	Technical Data Package

2. NOT USED

3. DEFINITIONS

Term	Definition
Acceptance	means acceptance of the Supplies in accordance with clause 5.2 of the conditions of contract signified by the Commonwealth Representative's signature of the Certificate of Conformity; and "Accept" has a corresponding meaning.
Agency	for clause 10.7 of the conditions of contract, has the same meaning as in the <i>Privacy Act 1988</i> .
Approval	<p>a. for a data item, has the meaning given by clause 2.3 of the SOW; and</p> <p>b. in every other context, means the act of the Commonwealth Representative approving a particular course of action as a basis for further work under the contract.</p> <p>Approval in either case does not constitute Acceptance; "Approve" has a corresponding meaning.</p>
Approved Privacy Code	has the same meaning as in the <i>Privacy Act 1988</i> .
Attachment	means an attachment to the Contract listed in the table of contents.
Audit	means a systematic, independent and documented process for obtaining audit evidence and evaluating it objectively to determine the extent to which audit criteria are fulfilled.
Background IP	<p>means IP, other than Third Party IP, that:</p> <p>a. is in existence at the Effective Date or is subsequently brought into existence other than as a result of the performance of the Contract; and</p> <p>b. is embodied in, or attaches to, the Supplies or is otherwise necessarily related to the functioning or operation of the Supplies.</p>
Base Date	means 30 Jun 09.
Capability	means the combination of the Mission System and the Support System.
Certificate of Conformity	Means the certificate identified in clause 6.4 of the SOW.

ATTACHMENT H

Term	Definition
Certification	for clause 6 of the SOW, has the meaning given by clause 6.1 of the SOW. 'Certified' has a corresponding meaning.
Codification Data	means: <ul style="list-style-type: none"> a. for items of Supplies (other than data, services, and Intellectual Property) not already codified in the NATO Codification System, the engineering drawings, standards, specifications and/or technical documentation required to fully identify the items designated by the Commonwealth to support the equipment covered by the Contract; or b. for items of Supplies already codified in the NATO Codification System, the details of that codification.
Commercial and Government Entity (CAGE) Code	means the code that identifies the manufacturer of an item.
Commercial-in-Confidence Information	means information including, trade secrets, know-how and any information comprised in Technical Data that: <ul style="list-style-type: none"> a. is by its nature confidential; or b. the receiving party knows or ought to know is confidential, but does not include information which: <ul style="list-style-type: none"> a. is or becomes public knowledge other than by breach of the Contract; b. is in the possession of a party without restriction in relation to disclosure before the date of receipt; or c. has been independently developed or acquired by the receiving party.
Commonwealth Representative	The person holding or performing the office of National Fleet Manager, Combat Clothing, or any other person appointed pursuant to the Contract as the Commonwealth Representative.
Conditions of Contract or CoC	means the terms in the part of the Contract identified as the 'conditions of contract'
Consumable	has the same meaning as Expendable Item.
Contract	means the conditions of contract, the Attachments including the SOW, and any document expressly incorporated as part of the Contract.
Contract Data Item	means reports, minutes, procedures, plans or other data required by the Contract to be provided to the Commonwealth Representative.
Contract Price	means the amount set out in Attachment B.
Contractor Managed Commonwealth Assets	means any item of goods owned by the Commonwealth in the care, custody or control of the Contractor, its officers, employees, agents or Subcontractors and may include, but is not limited to, material issued to the Contractor by the Commonwealth, assets stored as spares, assets under repair, or assets loaned to the Contractor.
day	means a calendar day.
Defence Purposes	means any purpose within the power of the Commonwealth with respect to the defence of the Commonwealth and includes purposes that are necessary or incidental to that purpose.
Deviation	means written authorisation to depart from the originally specified requirements for a product before its production. An application for a Deviation is submitted before the event, when a condition is identified as not being able to be achieved, such as a: <ul style="list-style-type: none"> a. test requirement, b. process requirement, c. material requirement, and d. quality system requirement.

ATTACHMENT H

Term	Definition
document	includes: a. any paper or other materials on which there are writing, marks, figures, symbols or perforations having meaning for persons qualified to interpret them; and b. any article or material from which sound, images, or writings are capable of being reproduced with or without the aid of any other article or device.
Effective Date	means the date on which the Contract is signed by the parties, or if signed on separate days, the date of the last signature.
Employee	for clause 9.9 of the conditions of contract means an employee of Defence or a member of the Australian Defence Force.
Expendable Item	means items which are expended, or used beyond recovery in normal use that includes items such as ammunition, adhesives, rivets, paint, fuel, lubricant, sealants, sheet metal, lock wire, nuts, bolts, cleaning materials and electrical wiring cables.
Foreground IP	means IP which is created under or otherwise in connection with the Contract, other than Third Party IP.
Glossary	means this glossary in Attachment H to the conditions of contract.
GST Act	means the A New Tax System (Goods and Services Tax) Act 1999. The expressions "adjustment note", "taxable supply" and "tax invoice" also have the meanings given to those expressions in the GST Act 1999.
Hazardous Substance	means a substance which has the potential, through being used, to harm the health or safety of persons as detailed in the National Occupational Health and Safety Commission (NOHSC) publications NOHSC: 1008 (2004) "Approved Criteria for Classifying Hazardous Substances" and the "Hazardous Substances Information System" (HSIS).
Imported Content	means that part of the Supplies that is not Local Content or Australian Government charges or duties, including GST. This includes that part of the Supplies that is of overseas (other than New Zealand) origin and comprises all associated costs including, but not limited to, international freight and cartage (by other than Australian and New Zealand industry carriers), agent's fees, and overseas storage.
Information Privacy Principle	has the same meaning as in the <i>Privacy Act 1988</i> .
Intellectual Property	means all copyright (including moral rights) and all rights in relation to inventions (including patent rights), registered and unregistered trademarks (including service marks), registered and unregistered designs, confidential information (including trade secrets and know-how), and circuit layouts, and any other rights resulting from intellectual activity in the industrial, scientific, literary and artistic fields recognised in domestic law anywhere in the world.
Latent Defect	means a deficiency in design, materials or workmanship not discoverable by reasonable care or inspection prior to Acceptance which causes: a. a software failure; or b. a failure of Supplies other than software which falls outside the incidence of random failures to be expected from those supplies.
Maintenance	means all actions taken to retain material in or restore it to a specified condition or to restore it to serviceability. It includes inspection, condition monitoring, servicing, repair, overhaul, testing, calibration, rebuilding, reclamation, upgrades, modification, recovery, classification and the salvage of technical equipment.

ATTACHMENT H

Term	Definition
Mission System	means that element of the Capability that directly performs the operational function. For this Contract, Mission System specifically means Disruptive Pattern Uniforms (DPU).
month	means a calendar month.
Moral Rights	means: <ul style="list-style-type: none"> a. a right of attribution of authorship; b. a right not to have authorship falsely attributed; or c. a right of integrity of authorship.
National Privacy Principle	has the same meaning as in the <i>Privacy Act 1988</i> .
Non-Development Item	means material available from a wide variety of sources that does not require any development effort to meet specific Commonwealth requirements.
Ozone Depleting Substance	means any ozone depleting substance within the meaning of the <i>Ozone Protection Act 1989</i> .
Personal Information	has the same meaning as in the <i>Privacy Act 1988</i> .
Personnel	means all staff involved in the operation and support of the Mission System and Support System, including Commonwealth, Contractor (Support) and support Subcontractors.
Process Audit	means a systematic, independent and documented review of a process (a process being a set of interrelated or interacting activities which transforms inputs into outcomes) resulting in the obtaining of audit evidence and evaluating such evidence to objectively determine the extent to which the process complies with stated requirements. The review may include any documentation and records associated with the process.
Product Audit	means a systematic, independent and documented review of a product (a product being the result of a process) resulting in the obtaining of audit evidence and evaluating such evidence to objectively determine the extent to which the product complies with stated requirements. The review may include the inspection of the product and analysis of its processes, documentation and records.
Quality	means the degree to which a set of inherent characteristics fulfils requirements
Quality Assurance	means that part of Quality Management focused on providing confidence that Quality Requirements will be fulfilled.
Quality Management	means coordinated activities to direct and control an organisation with regard to Quality.
Quality Management System	means a management system to direct and control an organisation with regard to Quality.
Relevant Period	for clause 9.9 of the conditions of contract each of: <ul style="list-style-type: none"> a. 24 months; b. 12 months; and c. 6 months, before the request for the approval contemplated by 9.9.2 was made.
Related Body Corporate	has the meaning given by section 9 of the <i>Corporations Act 2001</i> .
Service Provider	for clause 9.9 of the conditions of contract, a person, other than an Employee, involved in Defence work or engaged by the Department of Defence or the Australian Defence Force.

ATTACHMENT H

Term	Definition
Specification	for the purposes of Annex A of the SOW, specifies the technical requirements for the Supplies to be provided under the Contract.
Standard	a document, established by consensus and approved by a recognised body that provides, for common and repeated use, rules, guidelines or characteristics for activities or their results, aimed at the achievement of the optimum degree of order in a given context.
Statement of Work	means the statement of the work at Attachment A including the Annexes to the SOW and any specifications referred to in the SOW.
Subcontractor	means any person that, for the purposes of the Contract, furnishes Supplies directly to the Contractor or indirectly to the Contractor through another person; and 'Subcontract' has a corresponding meaning.
Supplies	means goods and services including IP and TD required to be supplied under the Contract and includes items acquired in order to be incorporated in the Supplies as well as packaging
Support Resources	means the physical products (including Spares), equipment, materials, facilities, TD, Personnel and any other physical resources required to operate and support all or a particular part of the Mission System.
Support System	means the sum of the existing support infrastructure (including that of the Commonwealth, the Contractors and subcontractors) and the additional support elements being generated under the Contract to enable the Mission System to be effectively supported so that can meet its operational requirements.
Surveillance	means continual monitoring and verification of the status of an entity and analysis of records to ensure that specified requirements are being fulfilled (the entity could be a system, process, product, project, contract etc).
System Audit	means a systematic, independent and documented review of a system (a system being a set of interrelated or interacting elements) resulting in the obtaining of audit evidence and evaluating such evidence to objectively determine the extent to which the system and its associated processes, documentation and records comply with stated requirements. The review may include any elements of the system [derived from AS NZS ISO 9001:2000].
Systems Engineering	includes the technical and management efforts of directing and controlling a totally integrated engineering effort of a system or program. SE includes the effort to define the system and the integrated planning and control of the technical program efforts of design engineering, specialty engineering, production engineering, and integrated test planning. SE also includes the effort to transform an operational need or statement of deficiency into a description of system requirements and a preferred system configuration.
Tax Invoice	means the invoice identified in clause 6.4 of the SOW.
Technical Data	means all technical know-how and information reduced to material form produced or acquired by the Contractor or Subcontractors in relation to the Supplies and includes all data, manuals, handbooks, designs, standards, specifications, reports, writings, models, sketches, plans, drawings, calculations, software, Source Code, Software Design Data, Software Updates and other items describing or providing information relating to the Supplies or their operations.
Third Party IP	means that IP which is owned by a party other than the Commonwealth, or the Contractor and is embodied in the Supplies, or attaches to, the Supplies or is otherwise necessarily related to the functioning or operation of the Supplies, and is not limited to COTS items.
Warranty period	for clause 8.2 of the conditions of contract, has the meaning given by clause 8.2.1.

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ATTACHMENT H

Term	Definition
Working Day	in relation to the doing of an action in a place means any day other than a Saturday, Sunday or public holiday in that place.

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ATTACHMENT H

4. REFERENCED DOCUMENTS

Reference	Description
ABR 6492P	Navy Technical Regulations Manual
ARMY(AUST)6542	Uniform, Combat, Disruptive Pattern Printed, Issue 7
AS 1199-2003	Sampling Procedures and Tables for Inspection by Attribute
AS 2490:1997	Sampling Procedures and Charts for Inspection by Variables
AS/NZS ISO 10005:1995	Quality Management – Guidelines for Quality Plans
AS/NZS ISO 8402:1994	Quality Management and Quality Assurance
AS/NZS ISO 9000.2	Quality Management and Quality Assurance standards
AS/NZS ISO 9001:1994	Quality Systems – Model for quality assurance in design, development, production, installation and servicing
AS/NZS ISO 9001:2000	Quality Systems – Model for quality assurance in design, development, production, installation and servicing
AS/NZS ISO 9002:1994	Quality Systems – Model for quality assurance in production, installation and servicing
AS/NZS ISO 9004:2000	Quality Management Systems – Guidelines for Performance Improvements
AS/NZS ISO 19011:2003	Guidelines for Quality and/or Environmental Management Systems Auditing
AS/NZS ISO 9000:2000	Quality Management Systems - Fundamentals and Vocabulary
AS ISO/AEC 17025	General Requirements for the Competence of Testing and Calibration Laboratories
AS/NZS 15939:2003 (ISO/IEC 15939:2002)	Information Technology - Software Measurement Process
ASD S1000D	International Specification for Technical Publications Utilizing a Common Source Database
	<i>Auditor-General Act 1997</i>
CPGs	Commonwealth Procurement Guidelines – December 2008
	<i>Corporations Act 2001</i>
DEF(AUST)1000C	ADF Packaging
DEF(AUST)5085B	Engineering Drawing - Acquisition and Preparation for Defence Equipment
DEF(AUST)5629A	Production of Military Technical Manuals
DEF(AUST)5647B	Technical Manuals Acquisition Guidelines Handbook
DEF(AUST)5692	Logistic Support Analysis Record Requirements for the Australian Defence Organisation
DEF(AUST)8188	Cloth, Disruptive Pattern Printed, Issue 2
DEF(AUST)8746	Print Designs, Disruptive Pattern, Issue 3
DEF(AUST)8900	Cloth, Cotton Twill Weave, Fire Retardant Treated & Untreated, Issue 1
DEF(AUST)8913	Uniform, AFV, EOD & PET OPS Crews, Issue 1

ATTACHMENT H

Reference	Description
DI(G) LOG 08-16	Defence Policy on Codification
DI(G) OPS 07-14	Management of Defence Use of the Radio Frequency Spectrum
DI(G) LOG 4-3-014	Stocktaking of Defence assets
DPPM	Defence Procurement Policy Manual
DSM	Defence Security Manual
	Equal Opportunity for Women in the Workplace Act (Cth) 1999
GST Act	<i>A New Tax System (Goods and Services Tax) Act 1999</i>
	Hazardous Substances Information System (HSIS)
	Interim Defence Procurement Complaints Handling Policy
ISO 216	Writing Paper and Certain Classes of Printed Matter – Trimmer Sizes – A and B series
ISO 9001:2000	Quality Management Systems Requirements
MIL-STD-38784A	Standard Practice for Technical Manuals: General Style and Format Requirements
MIL-STD-961D	Defence Specifications
MIL-STD-961E	Defence and Program-unique Specifications Format and Content
MLW 3.4.2	Manual of Land Warfare
	NATO Standardisation Agreement (STANAG) 4177
NOHSC 2011 (1994)	National Code of Practice for the Preparation of Material Safety Data Sheets
NOHSC: 10005 (1999)	List Of Designated Hazardous Substances
NOHSC: 1008 (2004)	Approved Criteria for Classifying Hazardous Substances (National Occupational Health and Safety Commission (NOHSC))
	Occupational Health and Safety (Commonwealth Employment) Act 1991
	Ozone Protection Act 1989
	<i>Privacy Act 1988</i>
	RAN Training System Manual
STANAG 4177	Codification of Items of Supply - Uniform System of Data Acquisition
	The United Nations Convention on Contracts for the International Sale of Goods
TRAMM	Technical Regulation of Army Materiel Manual