



NFCC
National Fire
Chiefs Council

The professional voice of the
UK Fire & Rescue Service

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Firefighters Personal Protective Equipment

Standard, Specification and Requirements

Wildland Firefighting

Jacket and trouser

[Including one piece (coverall) option]

Specialist PPE Project – Oct 2021

SCOPE

This performance specification describes the requirements for a protective wildland firefighting jacket and trouser for both male and female fire fighters.

The jacket and trouser should offer the wearer protection from injuries, which could arise through accidents in the working sector for which the jacket and trouser is designed.

The jacket and trouser is to be CE marked to BS ISO 16073-3:2019 *Wildland firefighting personal protective equipment — Requirements and test methods — Part 3: clothing*.

PERFORMANCE REQUIREMENTS

Description and Use

Provision of protective jacket and trouser that meets the general and specific needs of Fire & Rescue Service (FRS) operational personnel.

The product must be suited to the range of wildland firefighting activities carried out during emergency response and training operations. The product must be of such design, robustness, material and specification to meet the needs of these operations. It should also be simple to clean, repair and maintain.

All test performance data must be submitted with tender document, please indicate compliant and submitted where requested. All documentation to be in English.

Firefighting PPE is designed, following a suitable risk assessment, to protect firefighters from risks that cannot be removed by other means.

One potential emerging risk to firefighter's health is exposure to contaminants as a result of the incidents that they attend; some of these contaminants may be carcinogenic.

All Contractors should be mindful of these emerging risks and as such ensure that the PPE is designed to be easily cleaned and decontaminated. In addition methods for identifying that the PPE may be contaminated should also be considered when designing the PPE.

Requirement Reference Number	Requirement	Response Criteria
A1	<p>Jacket and Trouser</p> <p>The items must conform to BS ISO 16073-3:2019 or ISO 15384:2020</p> <p>NB. BS ISO 16073-3 requires wildland clothing to meet the requirements of ISO 15384:2020</p>	<p>Evidence from Tenderer shall constitute:</p> <p>(1) Independent Certification from test laboratories that are accredited to their respective National Accreditation Service, The National Accreditation Service must be members of either EA or ILAC and comply with ISO/IEC 17011:2017. Validity of Certification must be 6 months or more prior to date of expiry, or; A signed letter on official letterhead from the relevant test house stating that work to complete the required certification has been commissioned and certification will be achieved before the required deadline.</p> <p>(2) Detailed Product specification.</p>
A2	<p>Dimensional Change</p> <p>The items must conform to BS EN 469:2020, section 6.2.5</p> <p>Please see clarification issued on 26/03/2021</p>	<p>Evidence from Tenderer shall constitute:</p> <p>(1) Independent test report from test laboratories that are accredited to their respective National Accreditation Service, The National Accreditation Service must be members of either EA or ILAC and comply with ISO/IEC 17011:2017. Validity of Certification must be 6 months or more prior to date of expiry, or; A signed letter on official letterhead from the relevant test house stating that work to complete the required testing has been commissioned and test report will be achieved before the required deadline.</p> <p>(2) Detailed Product specification.</p>
A3	<p>Ageing</p> <p>The items must conform to ISO 15384, section 5.6 after 40 wash/dry cycles without any requirements for additional additives or treatments</p>	<p>Evidence from Tenderer shall constitute:</p> <p>(1) Independent Certification from test laboratories that are accredited to their respective National Accreditation Service, The National Accreditation Service must be members of either EA or ILAC and comply with ISO/IEC 17011:2017. Validity of Certification must be 6 months or more prior to date of expiry, or; A signed letter on official letterhead from the relevant test house stating that work to complete the required certification has been commissioned and certification will be achieved before the required deadline.</p>

<p>A4</p>	<p>Compatibility</p> <p>i) The items must conform to BS ISO 16073-2:2019 or ISO/TS 11999-2</p> <p>NB. BS ISO 16073-2 requires wildland clothing to meet the requirements of ISO/TS 11999-2</p> <p>ii) Jackets will need to be compatible with backpacks</p> <p>iii) Trousers will need to be compatible with both standard slip on calf length fire boots and shorter ankle (walking) boot.</p>	<p>Evidence from Tenderer shall constitute:</p> <p>(1) Independent test report from test laboratories that are accredited to their respective National Accreditation Service, The National Accreditation Service must be members of either EA or ILAC and comply with ISO/IEC 17011:2017. Validity of Certification must be 6 months or more prior to date of expiry, or; A signed letter on official letterhead from the relevant test house stating that work to complete the required testing has been commissioned and test report will be achieved before the required deadline.</p> <p>Detailed Product specification to evidence compliance with all points i, ii, and iii.</p>
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Wildland jacket and trouser - General Requirements

<p>B1</p>	<p>To be available in all sizes between XS to XXXXL inclusive.</p> <p>To include a facility to provide 'made to measure' for wearers that fall outside standard size ranges. Please refer to 5. Sizing and Special Requirements in Stage 1: Pass / Fail Evaluation Questions at within the ITT.</p>	<p>Evidence from Tenderer shall constitute:</p> <ul style="list-style-type: none"> • Detailed Product specification • The actual sizing chart to be offered via the Framework that evidences provision of all sizes required
<p>B2</p>	<p>Each garment will need to be uniquely barcoded in order that the Authority is able to track each garment, particularly if a garment is sent for cleaning, repair and maintenance.</p> <p>The Tenderer must provide an inventory of barcodes with each order delivered and hold a central database of all barcodes assigned to each order for each Participating Authority.</p> <p>If providing cleaning, repair and maintenance services, the Tenderer must use the unique barcodes to enable both the Tenderer and the Authority to track the garments throughout each stage of the respective service provision. This information must therefore be accessible to both the Tenderer and Participating Authority throughout the life of each call-off arrangement.</p>	<p>The Tenderer must provide relevant evidence to demonstrate how the requirement shall be met, and shall include product information of the barcoding system that shall be used to meet the requirement.</p>

<p>B3</p>	<p>Jacket</p> <p>The jacket must have all of the following attributes;</p> <ul style="list-style-type: none"> • Ergonomic, breathable and suitable for extended periods of use • Available in colour red to match trouser • Concealed front zip closure covered by secured storm flap • Deep stand collar with secured adjustable throat tab that can be worn in the high or standard position • Thumb loops on end of sleeve/cuff • Adjustable cuff closure system to prevent the entry of burning debris and provide a secure closure with gloves. • Internal attachment system for joining together with trousers • Centre front right pocket suitable to hold a standard size ordnance survey map, with a suitable closure system to prevent the entry of debris/embers • Centre front left pocket (same size at right hand chest pocket) suitable for holding fire service radio. • Both pockets to start (rise from) the top edge of reflective tap • Double layer to shoulders to provide additional protection when carrying backpacks • Underarm secure ventilation system, which does not affect the performance of the garment and does not require manual opening or closing. • All closures to be easily operated with a gloved hand 	<p>Evidence from Tenderer shall constitute:</p> <ul style="list-style-type: none"> • Detailed Product specification; • User guidance provided in English <p>Evidence must demonstrate compliance to all the points listed in B3.</p>
<p>B4</p>	<p>Trousers</p> <p>The trousers must have all of the following attributes;</p> <ul style="list-style-type: none"> • Ergonomic, breathable and suitable for extended periods of use • Colour red to match jacket • To have a fly opening system for ease of donning • Elasticated waist band with side (size) adjusters • Elasticated detachable braces • Internal attachment system for joining together with jacket • Double layer crotch and knee areas 	<p>Evidence from Tenderer shall constitute:</p> <ul style="list-style-type: none"> • Detailed Product specification; • User guidance in English <p>Evidence must demonstrate compliance to all the points listed in B4.</p>

	<ul style="list-style-type: none"> Reinforced shin areas to protect against gorse/thorns or undergrowth (maybe in a darker colour to prevent staining over time) Leg bottom to have a gusset and secured adjustable closure system to facilitate donning and doffing whilst wearing wildland boots. Two side thigh bellowed pockets (one on each leg) at least 15cm by 20cm with closable fastener to prevent entry of burning debris <p>All closures to be easily operated with a gloved hand</p>	
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Wildland jacket and trouser - Additional Documentation

C1	<p>The tenderer shall provide all relevant user documentation and manuals that details how the item is:</p> <ol style="list-style-type: none"> Safely used and adjusted (if necessary) Maintained, including repair if relevant Cleaned <p>All of these to be published in English.</p>	<p>Evidence from Tenderer shall constitute:</p> <p>User documents that come with the product detailing all the requirements (1, 2, and 3 as listed) in English on company headed or branded paperwork</p>
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Wildland jacket and trouser - Optional Fire Service Requirement

D1	<p>One piece coverall version covering the same size range as detailed in B1 above</p>	<p>Evidence from Tenderer shall constitute:</p> <p>Tenderer to provide confirmation that a one piece coverall version is available and that the size range required is available</p>
D2	<p>All options (one piece and two piece) to be available in yellow</p>	<p>Evidence from Tenderer shall constitute:</p> <p>Tenderer to provide confirmation that the one piece and two piece shall be made available in the colour yellow.</p>