

	<b>Specification</b>	
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**Title: Technical Specification on Personal Protective Clothing and Equipment for Firefighters**

**Document Identifier: 32-128**

**Alternative Reference Number: Not applicable**

**Area of Applicability: Eskom Holdings SOC Limited**

**Functional Area: Sustainability**

**Revision: 2**

**Total Pages: 42**

**Next Review Date: June 2025**

**Disclosure Classification: Controlled Disclosure**

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## **1. Introduction**

This specification was compiled in accordance with Eskom's Corporate Identity to satisfy the need for simplification and standardisation of Eskom's personal protective clothing and equipment for firefighters. This specification will give divisions/operating units/business units an understanding of the minimum requirements for personal protective clothing and equipment for firefighters in Eskom.

## **2. Supporting clauses**

### **2.1 Scope**

#### **2.1.1 Purpose**

This specification provides information relating to the personal protective clothing and equipment required for appointed members of firefighting teams and individuals at Eskom operating/business units or sites. This document also includes special additional personal protective equipment and/or clothing to be used in other emergency situations or scenarios that firefighting team members could be called on to attend.

#### **2.1.2 Applicability**

This document shall apply throughout Eskom Holdings SOC Limited, its divisions, and subsidiaries and where Eskom may have a controlling interest.

#### **2.1.3 Effective date**

This document shall be applicable from the date of publication.

### **2.2 Normative/informative references**

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

#### **2.2.1 Normative**

- [1] ISO 9001: Quality Management Systems
- [2] NFPA 1500: Standard on Fire Department Occupational Safety and Health Programme
- [3] NFPA 1851: Standard on the Selection, Care, and Maintenance of Protective Ensemble for Structural Firefighting and Proximity Firefighting
- [4] NFPA 1852: Standard on Selection, Care, and Maintenance of Open-circuit Self-contained Breathing Apparatus
- [5] NFPA 1855: Standard on Selection, Care, and Maintenance of Protective Ensemble for Technical Rescue Incidents
- [6] NFPA 1951: Standard on Protective Ensembles for Technical Rescue Incidents

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- [7] NFPA 1971: Protective Ensemble for Structural Firefighting
- [8] NFPA 1975: Station/Work Uniforms for Firefighters
- [9] NFPA 1977: Standard on Protective Clothing and Equipment for Wild-land Firefighting
- [10] NFPA 1981: Standard on Open-circuit Self-contained Breathing Apparatus (SCBA) for Emergency Services
- [11] NFPA 1982: Personal Alert Safety Systems (PASS) for Firefighters
- [12] NFPA 1983: Fire Service Life Safety Rope, Harness, and Hardware
- [13] NFPA 1984: Standard on Respirators for Wild-land Firefighting
- [14] NFPA 1991: Vapour-protective Suits for Hazardous Chemical Emergencies
- [15] NFPA 1992: Liquid Splash-protective Suits for Hazardous Chemical Emergencies
- [16] NFPA 1999: Standard on Protective Clothing for Emergency Medical Operations
- [17] 240-44175132: Eskom Personal Protective Equipment
- [18] 240-70044736: Arc Flash Protective Clothing and Personal Protective Equipment against the Thermal Hazards of Electric Arcs

### **2.2.2 Informative**

- [19] 32-108: Firefighting Organisation
- [20] 32-124: Eskom Fire Risk Management

### **2.3 Definitions**

<b>Word</b>	<b>Explanation</b>
Ensemble	A number of different items of clothing and accessories, put together to create an outfit, in this instance as PPE for firefighting.
Bunker clothing	Refer to firefighter system of outer protective clothing. "Bunker gear" and "turnout gear" can refer, depending on the context, to just the trousers, boots, and jacket or to the entire combination of personal protective equipment and personal protective clothing. The terms are derived from the fact that the trousers and boots are traditionally kept by the firefighter's bunk at the fire station to be readily available for use.

### **2.4 Abbreviations**

<b>Abbreviation</b>	<b>Explanation</b>
BDU	Battle dress uniform
BS	British Standard
EN	European Standard
ERT	Emergency response team
HAZMAT	Hazardous materials
IFRM	Intrinsically fire-resistant material

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<b>Abbreviation</b>	<b>Explanation</b>
ISO	International Standards Organisation
N/a	Not applicable
NFPA	National Fire Protection Association
OEM	Original equipment manufacturer
OHS	Occupational health and safety
PASS	Personal alert safety system
PER	Pressure Equipment Regulations
PPE	Personal protective equipment
SANS	South African National Standard
SCBA	Self-contained breathing apparatus
VAT	Value added tax

## **2.5 Roles and responsibilities**

- 2.5.1** The employer shall ensure that all information, instructions, and training on the usage of personal protective clothing and equipment for firefighting shall be communicated to all applicable employees prior to their use. This shall include the limitations of identified/specific items.
- 2.5.2** An employer shall not require or permit any employee to work, unless such an employee is issued with the required personal protective clothing and equipment for firefighting and makes proper use of these.
- 2.5.3** The employer may not allow an employee to work, unless an employee is issued with PPE specific to the hazard to which the employee will be exposed.
- 2.5.4** Misuse of personal protective clothing and equipment for firefighting should be discouraged to ensure proper protection of employees.
- 2.5.5** The user must ensure that PPE is cleaned, stored, maintained, and used according to the manufacturer's specifications.

## **2.6 Process for monitoring**

- 2.6.1** Stipulated responsibilities will be monitored in terms of the provisions of 32-124, Eskom Fire Risk Management.

## **2.7 Related/supporting documents**

32-124 Eskom Fire Risk Management

## **3. Document content**

All personal protective clothing and equipment for firefighting shall meet the following minimum requirements.

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### **3.1 General**

- 3.1.1** PPE and equipment for firefighters must be the last means of protection against hazards.
- 3.1.2** PPE and equipment for firefighters must be kept in a good condition and in working order.
- 3.1.3** All required PPE must be supplied to an employee free of charge and be readily available.
- 3.1.4** The PPE supplied must be suitable and must be fit for purpose.
- 3.1.5** When properly used, it must be capable of controlling the firefighter's exposure by providing adequate protection against specific hazards encountered during emergencies.
- 3.1.6** When specified, it must be compliant with the identified authorised body and comply with technical specifications for the identified personal protective clothing and equipment for firefighting.
- 3.1.7** Not every firefighter has to be issued with every item mentioned in the lists below. These lists reflect the minimum for a specific activity.
- 3.1.8** A site/BU/OU-specific determination must be made as to what set or sets of PPE is/are to be issued based on the fire and emergency risk profile of the specific site.
- 3.1.9** The following are examples of how PPE may be issued:
- Where persons are only trained on an individual basis, as per 32-108, they will require only the PPE listed under "Fire warden".
  - An area that has to address only veld fires as part of its hazards may need to only provide the items as listed under "Veld, grass, and wild-land firefighting".
  - It is expected that where A-team or B-team (see 32-108) emergency response teams are in place, such persons may very likely have multiple sets of PPE dependant on the emergency that requires a response.
- 3.1.10** It is essential that persons are provided with the correct firefighting clothing and equipment for the activities that they are expected to conduct.
- 3.1.11** It is also encouraged that all firefighters wear station wear or overalls under their bunker clothing. The wearing of normal undergarments alone should not be allowed, as this exposes skin to the effects of high temperatures and even steam burns when vapour is trapped between the PPE and the skin.

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**3.1.12** Cognisance must be taken of 240-44175132 (Eskom Personal Protective Equipment) and 240-70044736 (Arc Flash Protective Clothing and Personal Protective Equipment against the Thermal Hazards of Electric Arc) for items that may be used in addition to the firefighting PPE.

**3.1.13** Some protective equipment will not necessarily be for personal issue, for example, suits for working on HAZMAT incidents or self-contained breathing apparatus. In these cases, the protective clothing and/or equipment must be readily available and serviceable.

**3.1.14** Due to the health and hygiene challenges presented by the members of any emergency response team having to share the masks of breathing apparatus, it is advisable that each member should be issued with his/her own mask for the duration that he/she is a member in good standing of the team. This requirement is not applicable to self-contained breathing apparatus that is installed for emergency escape purposes. Where masks are returned, a stringent decontamination and cleaning regime must be followed prior to issuing the mask to any new team member. Similarly, where SCBA has been used in order to escape from danger, such masks must be decontaminated and cleaned.

## **3.2 Personal protective clothing and equipment ensembles for firefighters**

### **3.2.1 Fire warden/hot work fire watch**

The ensemble for fire wardens shall consist of the following:

- Identifying reflective bib and personal torch.
- The fire warden's bib shall be in accordance with 240-44175132 (Eskom Personal Protective Equipment).
- The hot work fire watch bib shall also comply with the specifications in 240-44175132 (Eskom Personal Protective Equipment), but will have the words "FIRE WATCH" screen-printed in black on the back, between the shoulder blades. The lettering shall be Arial font and 10 cm in height.

### **3.2.2 Veld, grass, and wild-land firefighting**

The ensemble for veld, grass, and wild-land firefighting shall consist of:

- a one-piece grass firefighting suit (also known as a flight suit); or
- ensemble as for structural and large-scale firefighting (note: if grass fire suit is not available, or working on runaway fires and in difficult areas); as well as
- protective work gloves (firefighting gloves), protective hood (balaclava or flash hood), water bottle, protective firefighting goggles, firefighter socks, protective veld firefighting footwear, protective respirator, personal torch, protective veld firefighting helmet with protective neck shroud, web belt (optional), wire cutters, lighter, burn shield and veld firefighter personal shelter (optional, based on hazard area), and firefighting apparel bag.

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### **3.2.3 Structural and large-scale firefighting**

The ensemble for structural and large-scale firefighting shall consist of a protective helmet (fire helmet fitted with 6" visor), protective work gloves (firefighting gloves), protective firefighting footwear (fire boots), protective firefighting goggles, turnout coat (bunker jacket), turnout trousers (bunker pants), firefighter socks, protective hood (balaclava or flash hood), burn shield, personal torch, self-contained breathing apparatus for atmospheres that present dangerous gases, personal alert safety system (PASS), and firefighting apparel bag.

### **3.2.4 Technical rescue PPE (high-angle rescue)**

The ensemble for technical rescue (high-angle) shall consist of a one-piece grass firefighting protective garment (flight suit), protective rescue helmet, Class III life safety harness, protective goggles, personal torch, technical rescue gloves, protective footwear, and headlamp for protective helmet.

### **3.2.5 Motor vehicle extrication incidents**

The ensemble for motor vehicle extrication shall consist of a protective helmet (fire helmet fitted with 6" visor), protective work gloves (firefighting gloves), protective firefighting footwear (fire boots), protective goggles, turnout coat (bunker jacket), turnout trousers (bunker pants), firefighter socks, burn shield, protective hood (balaclava or flash hood), personal torch, and firefighting apparel bag.

### **3.2.6 Confined space rescue**

The ensemble for confined space rescue shall consist of a one-piece grass firefighting protective garment (flight suit), protective rescue helmet, medical latex gloves, protective goggles, technical rescue gloves, protective footwear, headlamp for protective helmet, personal torch, self-contained breathing apparatus for atmospheres that present dangerous gases, and personal alert safety system (PASS).

### **3.2.7 Emergency medical service**

The ensemble for emergency medical services shall consist of a one-piece grass firefighting protective garment (flight suit), protective rescue helmet, medical nitrile gloves, protective goggles, protective footwear, headlamp for protective helmet, personal torch, single-use medical plastic apron, and reflective medical jacket.

### **3.2.8 Hazardous materials (HAZMAT) incidents**

The ensemble for hazardous materials (HAZMAT) incidents shall consist of the relevant class of protection, as determined by pre-incident hazard identification in accordance with the following:

- Class A incident – provides the highest level of protection against vapours, gases, mists, and particles. Fully encapsulated HAZMAT suit with SCBA.

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- Class B incident – provides protection against splashes from a hazardous chemical. Wrists, ankles, face piece, hood, and waist are secured to prevent entry of splashed liquid; gloves and boots are donned. SCBA must be worn.
- Class C incident – provides protection against splashes from a hazardous chemical. Wrists, ankles, face piece, hood, and waist are secured to prevent entry of splashed liquid; gloves and boots are donned. Use of respiratory protection equipment other than SCBA may be required.
- Class D incident – no special protective clothing required; no SCBA required. **Level D protection is not adequate for first responders.**
- HAZMAT boots and HAZMAT gloves.

### **3.2.9 Station wear**

The ensemble for station wear shall consist of the following:

- BDU-style shirt, BDU-style trousers, fire-proof T-shirt, 50 mm fire services leather belt (different from web belt), protective footwear, all-weather parka, firefighter socks, and operational cap.
- Station wear is to generally satisfy the requirements for Arc Flash Protective Clothing and Personal Protective Equipment (240-70044763) for Level 2 and to comply with PPE and related legal and Eskom requirements in all divisions and subsidiaries.
- When combined with the firefighting gloves and protective helmet (fire helmet fitted with 6" visor), station wear shall be suitable as Level 2a arc PPE.

### **3.2.10 Other hazards not mentioned**

Should the fire safety and emergency risk profile of a specific site/BU identify any hazard or risk that may require emergency response and that may not have been covered in the ensembles above, the onus is on the division and/or BU to ensure compliance with all safety requirements in accordance with the relevant standards, regulations, or codes of practice for that specific PPE equipment that may be required.

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### 3.3 Minimum standard specification for firefighting clothing and equipment

#### 3.3.1 One-piece grass firefighting suit (also known as a flight suit)



Figure 1: Example of flight suit – Eskom

- a. The one-piece grass firefighting suit (flight suit) shall be in terms of, and certified according to, NFPA 1977 (Standard on Protective Clothing and Equipment for Wild-land Firefighting) or equivalent.
- b. The suit shall be yellow, in accordance with Eskom's Corporate Identity.
- c. The Eskom logo shall appear on the left-hand top pocket in white and shall be in accordance with Eskom's corporate identity.
- d. The Zero Harm identification shall appear on the right-hand-side sleeve at the top and shall be in accordance with Eskom's corporate identity.
- e. The Eskom Fire Risk and Emergency Management logo shall appear on the right-hand-side chest, in line with the Eskom logo, and shall be in accordance with Eskom's corporate identity.
- f. All personal protective clothing to be fitted with flame-resistant retro-reflective material strips on both sleeves' circumference on the inner upper arm and reflective strips on both legs above the knees.

#### 3.3.2 Protective work gloves (firefighting gloves)



Figure 2: Examples of firefighter gloves

- a. The protective work gloves (firefighting gloves) shall be in terms of, and certified according to, NFPA 1971 (Standard on Protective Clothing and Equipment for Structural Firefighting and Proximity Firefighting) or equivalent.

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- b. The gloves shall be of natural colour.

### **3.3.3 Protective hood (balaclava or flash hood)**



Figure 3: Examples of flash hoods

- a. The protective hood (firefighting balaclava or flash hood) shall be in terms of, and certified according to, NFPA 1971 (Standard on Protective Clothing and Equipment for Structural Firefighting and Proximity Firefighting) or equivalent.
- b. The protective hood shall be of natural or of cream colour, to the satisfaction of the customer.

### **3.3.4 Water bottle**

- a. The water bottle shall be a minimum capacity of 1 litre and be provided with the means to be carried on the person of the firefighter.

### **3.3.5 Protective firefighting goggles**



Figure 4: Examples of firefighting goggles

- a. The protective firefighting goggles shall be in terms of, and certified according to, NFPA 1971 (Standard on Protective Clothing and Equipment for Structural Firefighting and Proximity Firefighting) or equivalent.
- b. The frame of the protective firefighting goggles shall be grey or black.

### **3.3.6 Firefighter socks**

- a. Non-conductive, anti-static, and anti-bacterial socks shall be made from 100% cotton or 100% wool.

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- b. The socks must be knee height and available in three different sizes, namely, small/medium, large/X-large, and XX-large/XXX-large.
- c. The socks shall be CKS 600 black.

### **3.3.7 Protective veld firefighting footwear**



Figure 5: Examples of protective veld firefighting footwear

- a. The protective veld firefighting footwear shall be in terms of, and certified according to, NFPA 1977 (Standard on Protective Clothing and Equipment for Wild-land Firefighting) or equivalent.
- b. The same footwear will be suitable for the station wear ensemble.
- c. The shoes shall have a carbon fibre toe-cap.
- d. The protective footwear shall be black, in accordance with Eskom's Corporate Identity.

### **3.3.8 Protective veld firefighting respirator**



Figure 6: Examples of protective veld firefighting respirator

- a. The protective veld firefighting respirator shall be in terms of, and certified according to, NFPA 1984 (Standard on Respirators for Wild-land Firefighting) or equivalent.
- b. The respirator shall be the same yellow as the one-piece grass firefighting suit.

### **3.3.9 Personal torch**

- a. The personal torch shall be capable of at least 1 200 lumens output with a beam distance of at least 120 meters and a burn time of a minimum of four hours.

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### 3.3.10 Protective veld firefighting helmet with neck shroud



Figure 7: Examples of protective veld firefighting helmets

- a. The protective veld firefighting helmet with neck shroud shall be in terms of, and certified according to, NFPA 1977 (Standard on Protective Clothing and Equipment for Wild-land Firefighting) or equivalent.
- b. The protective veld firefighting helmet shall be yellow, in accordance with Eskom's Corporate Identity.
- c. The shield area in the front of the helmet shall display the Eskom Fire Risk and Emergency Management logo and shall be in accordance with Eskom's corporate identity.
- d. The Zero Harm slogan shall be stuck on by means of a vinyl sticker onto the left-hand side.
- e. The protective veld firefighting helmet shall have a reflective sticker with emergency numbers attached at the back.

### 3.3.11 Web belt

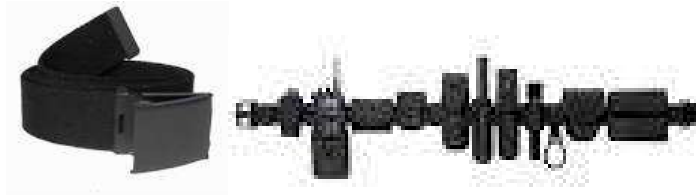


Figure 8: Examples of web belt

- a. The webbing belt shall generally be in compliance with the SAESI 001 standard and shall be black, in accordance with Eskom's Corporate Identity.

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### 3.3.12 Burn shield



Figure 9: Examples of burn shield

- a. A 100 mm x 100 mm foam-based dressing for optimal heat dissipation that conforms to the wound area with fibreless elastic open-cell foam sheeting and gel retention that ensures wound covering.

### 3.3.13 Lighter

- a. Any commercial lighter, to be used during back-burns or when creating a safe zone when under threat of runaway fires.

### 3.3.14 Veld firefighter personal shelter



Figure 10: Examples of shelter

- a. The veld firefighter shelter shall generally comply with the Forest Service Specification 5100-606.

### 3.3.15 Protective helmet (fire helmet fitted with 6" visor)



Figure 11: Examples of firefighter helmet

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- a. The protective structural firefighting helmet shall be in terms of, and certified according to, NFPA 1971 or equivalent.
- b. The helmet shall be black, in accordance with Eskom's Corporate Identity.
- c. The shield area in the front of the helmet shall display the Eskom Fire Risk and Emergency Management logo and shall be in accordance with Eskom's corporate identity.
- d. The Zero Harm slogan shall be stuck on by means of a vinyl sticker onto the left-hand side.

**3.3.16 Protective structural firefighting footwear (fire boots)**



Figure 12: Examples of structural firefighting footwear

- a. Protective structural firefighting footwear shall be in terms of, and certified according to, NFPA 1971 or equivalent.
- b. The footwear shall be black or a combination of black and yellow, in accordance with Eskom's Corporate Identity.

**3.3.17 Turnout coat (bunker jacket)**



Figure 13: Example of turnout coat

- a. The protective structural firefighting turnout coat shall be in terms of, and certified according to, NFPA 1971 or equivalent.
- b. The turnout coat shall be black, in accordance with Eskom's Corporate Identity.

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### **3.3.18 Turnout trousers (bunker pants)**



Figure 14: Example of turnout trousers

- a. Protective structural firefighting turnout trousers, inclusive of integrated emergency rope rescue harness (such harness to be of the same material and life expectancy as the garment), shall be in terms of, and certified according to, NFPA 1971 or equivalent.
- b. The turnout trousers shall be black, in accordance with Eskom's Corporate Identity.

### **3.3.19 Self-contained breathing apparatus**



Figure 15: Example of breathing apparatus

- a. Breathing apparatus shall be in terms of, and certified according to, NFPA 1852 and 1981 or equivalent.
- b. The specific type of breathing apparatus shall be specified based on the hazard to be addressed and may differ from the above-stated NFPA standards, in which case suitability has to be proven and recorded.

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### 3.3.20 Personal alert safety system (PASS)



Figure 16: Example of a PASS

- a. Personal alert safety systems shall be in accordance with, and certified to, NFPA 1982.

### 3.3.21 Protective rescue helmet



Figure 17: Example of a protective rescue helmet

- a. The protective rescue helmet shall be in terms of, and certified according to, NFPA 1951 or equivalent.
- b. The helmet shall be yellow, in accordance with Eskom's Corporate Identity.
- c. The shield area in the front of the helmet shall display the Eskom Fire Risk and Emergency Management logo and shall be in accordance with Eskom's corporate identity.
- d. The Zero Harm slogan shall be stuck on by means of a vinyl sticker onto the left-hand side.

### 3.3.22 Class III life safety harness



Figure 18: Example of a Class III life safety harness

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- a. The Class III life safety harness shall be in terms of, and certified according to, NFPA 1983 or equivalent.
- b. The harness may be any colour.

### **3.3.23 Technical rescue/high-angle gloves**



Figure 19: Example of technical/high-angle gloves

- a. Technical/high-angle gloves shall be in terms of, and certified according to, NFPA 1951 or equivalent.
- b. The gloves may be any colour.

### **3.3.24 Headlamp for protective helmets**



Figure 20: Example of headlamp

- a. The headlamp shall be intrinsically safe, must provide at least 400 lumens at 20 meter for six hours, and must be able to fit all types of protective helmets in this specification.

### **3.3.25 Medical nitrile gloves**



Figure 21: Example of medical nitrile gloves

- a. Medical nitrile gloves shall be ambidextrous, non-sterile, powder-free, with a beaded cuff, and made from nitrile latex synthetic material, which is hypoallergenic.

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### 3.3.26 Reflective medical jacket



Figure 22: Example of reflective medical jacket

- a. The reflective medical jacket shall be manufactured in the style of a waistcoat, as per Figure 22.
- b. The jacket shall have 1 x cellphone pouch (50 mm x 110 mm x 40 mm), 1 x glove pouch (115 mm x 115 mm x 35 mm), 2 x middle pouches (150 mm x 110 mm x 35 mm), 2 x large pouches containing elastic to insert needles, forceps, scissors, etc. (210 mm x 150 mm x 50 mm), 2 elastic loops on the front panel for a pen and pupil torch, and 1 x back pocket to house IV fluids, etc. (220 mm x 460 mm).
- c. The jacket shall have retro-reflective tape ironed on both the front bottom pockets, back pocket, and top of front and back panels.
- d. The back of the jacket shall have a retro-reflective star of life ironed on in the centre.
- e. The top left shoulder seam shall have a karabiner attached to hold IV fluids.
- f. The jacket shall be a “one size fits all”, which is adjustable with “ladder-locks” on the sides.
- g. The front inside of the jacket shall have flat pockets on either side to carry personal items such as a wallet, notepad, etc.
- h. The colours shall be navy blue (Pantone 19-3920).

### 3.3.27 Hazardous materials personal protective equipment



Figure 23: Examples of PPE for HAZMAT incidents

- a. Personal protective clothing for use during incidents where hazardous chemical substances, hazardous materials (HAZMAT), or dangerous goods are involved shall be in terms of, and certified to, NFPA 1991 and/or NFPA 1992 or equivalent for the type of incident expected, being as follows:

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- i. Class A incident – provides the highest level of protection against vapours, gases, mists, and particles. Fully encapsulated HAZMAT suit with SCBA (NFPA 1991).
- ii. Class B incident – provides protection against splashes from a hazardous chemical. Wrists, ankles, face piece, hood, and waist are secured to prevent entry of splashed liquid; gloves and boots are donned. SCBA must be worn (NFPA 1992).
- iii. Class C incident – provides protection against splashes from a hazardous chemical. Wrists, ankles, face piece, hood, and waist are secured to prevent entry of splashed liquid; gloves and boots are donned. Use of respiratory protection equipment other than SCBA may be required (NFPA 1992).
- iv. Class D incident – no special protective clothing required; no SCBA required. Level D protection is not adequate for first responders.

### **3.3.28 HAZMAT boots**



Figure 24: Examples of HAZMAT boots

- a. HAZMAT boots shall be in terms of, and certified according to, NFPA 1991 or equivalent.
- b. HAZMAT boots shall be matched to the level of incident, as described in 3.3.27.

### **3.3.29 HAZMAT gloves**



Figure 25: Example of a HAZMAT glove

- a. HAZMAT gloves, regardless of type, shall be in terms of, and certified according to, NFPA 1991 or equivalent.
- b. HAZMAT gloves shall be matched to the level of incident, as described in 3.3.27.

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### **3.3.30 BDU-style shirt**



Figure 26: Example of a BDU-style shirt

- a. The BDU-style shirt shall be in terms of, and certified according to, NFPA 1975 or equivalent.
- b. The BDU-style shirt shall be appropriate for use in Arc Level 2 and 2a, respectively.
- c. The colours shall be navy blue (Pantone 19-3920).
- d. The shirt shall be fitted with IFRM reflective strips on the circumference of both sleeves on the inner upper arm of the jacket.
- e. The reflective strips shall be visible in the day and at night.
- f. The Eskom logo shall appear on the left-hand top side of the shirt in white and shall be in accordance with the Eskom corporate identity.
- g. The Zero Harm identification shall appear on the right-hand side of the sleeve of the top of the shirt and shall be in accordance with the Eskom corporate identity.
- h. The Eskom Fire Risk and Emergency Management logo shall appear on the right-hand-side chest, in line with the Eskom logo, and shall be in accordance with Eskom's corporate identity.

### **3.3.31 BDU-style trousers**



Figure 27: Examples of a BDU-style pants

- a. The BDU-style pants shall be in terms of, and certified according to, NFPA 1975 or equivalent.
- b. The BDU-style pants shall be appropriate for use in Arc Level 2 and 2a, respectively.
- c. The colours shall be navy blue (Pantone 19-3920).
- d. The pants shall be fitted with IFRM reflective strips on both legs above the knees.
- e. The reflective strips shall be visible in the day and at night.

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### 3.3.32 Fire-resistant T-shirt



Figure 28: Example of a fire-resistant T-shirt

- a. The fire-resistant T-shirt shall be from non-melting fabric (for example, silk, rayon, wool) and shall be worn underneath the BDU-style shirt.
- b. The shirt shall be corporate colour (grey) (CKS 129-188c).

### 3.3.33 50 mm fire services leather belt



Figure 29: Example of a 50 mm fire services leather belt

- a. The belt shall be black in colour, a high-grain leather belt, with pressed edge, nickel-plated buckle with double prong, 50 mm wide, 4 mm thick, in assorted sizes.

### 3.3.34 All-weather parka



Figure 30: Example of an all-weather parka

- a. The jackets shall be insulated with pre-shrunk hollow cotton fibre 135 mgs, which is made of non-flammable material; the inner material shall be a tartan lining, 100% cotton, of a darkish colour, with the outer covering being pre-shrunk 100% soft woven fabric in accordance with SANS 1387-4, Material Type D59, flame-retardant (SANS 1423-1).
- b. The jacket shall be breathable, waterproof, with hood, have a removable polar fleece inner, and have retro-reflective and luminous trim.
- c. The jackets shall have one chest pocket and four side pockets. The side pocket shall be the bellows type with a side entry into another separate pocket and shall be 22 cm deep and 21 cm wide.

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- d. The pockets shall have flaps with cut-off edges that can be fastened by means of non-conductive press studs.
- e. Chest pockets shall be the bellows type – 15 cm deep and 14 cm wide.
- f. The jackets shall reach below the buttocks.
- g. The jackets shall have non-conductive press studs down the front on a double-panel strip as well as a non-conductive zip complying with SANS 1822 and be intact front and back.
- h. The sleeve cuffs shall have two non-conductive press studs at the end of the sleeve so that the size can be adjusted.
- i. The Eskom Fire Risk and Emergency Management logo shall appear on the right-hand-side chest, in line with the Eskom logo, and shall be in accordance with Eskom's corporate identity.
- j. The stitching shall comply with SANS 10101.
- k. The thread used shall comply with SANS 1362.
- l. The jacket shall comply with the Eskom corporate identity requirements and shall be Eskom navy blue (Pantone 19-3920 as per corporate colour code) and lime yellow above the retro-reflective and luminous trim.
- m. The thermal jacket to be fitted with reflective strips on both sleeves' circumference on the inner upper arms.
- n. The Zero Harm identification shall appear on the right-hand side of the sleeve and shall be in accordance with Eskom's corporate identity.

### 3.3.35 Operational cap



Figure 31: Example of an operational cap

- a. The operational baseball-style cap shall be from wool-acrylic-blend material.
- b. The cap shall be Velcro-adjustable.
- c. The cap shall have a reinforced front with the Eskom Fire Risk Management logo and shall be in terms of Eskom's corporate identity.
- d. The colours shall be navy blue (Pantone 19-3920).

### 3.3.36 Single-use medical plastic apron



Figure 32: Example of a medical plastic apron

- a. Disposable aprons made from fluid-resistant polythene and complying with the requirements of NFPA 1999; these may be any colour.

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### **3.3.37 Firefighting apparel bags**

- a. Tog bags shall be made from hard-wearing CORDURA canvas material and shall have a heavy-duty zipper closure.
- b. A label holder with a clear plastic window shall be stitched on one side of the tog bag.
- c. The colour of the tog bag shall be Eskom navy blue (Pantone 19-3920).
- d. The Eskom logo and the Eskom Fire Risk management logo shall appear in white silkscreen printing, in accordance with Eskom's corporate identity.
- e. The height of the bag shall be a minimum of 86 cm, with a diameter of 45 cm.

**Note: when purchasing the above protective equipment and if SANS specifications are not available, every effort must be made to purchase equipment that bears the National Fire Protection Association (NFPA) or British Safety Standard Mark (BS) or the European Norm Standard (EN).**

### **3.4 Care and maintenance**

- 3.4.1** The selection, care, and maintenance of the personal protective clothing and equipment for firefighters shall be in accordance with NFPA 1851 and NFPA 1855, as well as any provisions stated in each of the referenced standards per specified item.
- 3.4.2** The manufacturer's label and user information shall be examined for instructions on cleaning that the manufacturer provided with the ensemble or element. In the absence of manufacturer's instructions or manufacturer's approval of alternative guidelines, the cleaning guidelines provided in this section shall be used.
- 3.4.3** Chlorine bleach or chlorinated solvents shall not be used to clean or decontaminate garments.
- 3.4.4** The preferred chemical for the dry-cleaning of firefighting garments is perchloroethylene. Perchloroethylene is a manufactured chemical that is primarily used for dry-cleaning fabrics and degreasing metals.
- 3.4.5** Cleaning and decontamination solutions shall have a pH range of not less than 6.0 pH and not greater than 10.5 pH. (Use any washing powder, except Sunlight.)
- 3.4.6** Heavy scrubbing or spraying with high-velocity water jets, such as a power washer, shall not be used.
- 3.4.7** Protective ensembles and protective elements shall be cleaned and decontaminated separately from non-protective items.
- 3.4.8** Where the shells and liners of protective garment elements are separable, those items shall only be cleaned and decontaminated with like items, including, but not limited to, shells with shells and liners with liners.
- 3.4.9** More guidance can be found in Appendix A.

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### **3.5 Flame-retardant retro-reflective material sewing on garments**

**3.5.1** Product; retro-reflective material referenced WATT – FRIS91 – silver (50 mm).

**3.5.2** Product shall comply with EN 471 + A1; 2007 requirements, including the following three:

- EN469:2005, Clause 6.1, Annex B.3.2
- EN469:2005, Clause 6.5, Annex B.3.1
- BSENISO14116:2008, Limited Flame Spread

**3.5.3** Retro-reflective tape shall be fitted midway on both sleeves' circumference of the inner leg and underarm sleeve measurement on one- and two-piece work wear, including rainwear long pants and jackets.

### **3.6 Scales of issue of personal protective clothing and equipment for firefighters on personal issue**

**3.6.1** Table 1 provides sizes and applicable SAP ordering numbers.

**3.6.2** Personal protective clothing and equipment shall be issued in terms of Table 2 and shall be replaced based on the expressed lifespan or when the item(s) is/are no longer serviceable.

### **3.7 Garment labels**

**3.7.1** Garment labels shall be in accordance with SANS 1309.

**3.7.2** All garments shall have a cotton or rayon label firmly sewn to the yoke at the back of the neck on the inside or on the inside of the pants at the back.

**3.7.3** The label shall provide the following information in legible and indelible marking ink for textiles as per SANS 432:

- Manufacturer's name or trade mark or both
- Name of the manufacture of the material and its location
- Year of manufacture
- Full washing instructions
- Material fabric type Ex (D59 Zero flame) and (T006 Zero flame)
- Size
- Customer item code/traceability number as per SANS 432 indelible marking ink for textile fabrics
- Country of origin

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**Table 1: Sizes and SAP numbers ordering details**

Item	Size	SAP number
<b>Veld, grass, and wild-land firefighting</b>		
Protective firefighting gloves, NFPA/SANS/BS/EN certified	M	0594538
Protective firefighting gloves, NFPA/SANS/BS/EN certified	L	0594539
Protective firefighting gloves, NFPA/SANS/BS/EN certified	XL	0594540
Protective firefighting gloves, NFPA/SANS/BS/EN certified	XXL	0594541
Protective hood (flash hood), NFPA/SANS/BS/EN certified	One size fits all	0160804
Water bottle	1 litre	0594577
Protective goggles, red uvex	One size fits all	0041080
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	6 standard fit *	0594793
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	7 standard fit *	0594794
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	8 standard fit *	0594795
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	9 standard fit *	0594796
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	10 standard fit *	0594797
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	11 standard fit *	0594798
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	12 standard fit *	0594799
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	13 standard fit *	0594800
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	6 wide fit *	0594801
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	7 wide fit *	0594802
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	8 wide fit *	0594803
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	9 wide fit *	0594804
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	10 wide fit *	0594805
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	11 wide fit *	0594806
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	12 wide fit *	0594807
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	13 wide fit *	0594808
Protective respirator outer, yellow, NFPA/SANS/BS/EN certified	One size fits all	0595082
Protective respirator filter, NFPA/SANS/BS/EN certified	One size fits all	0595083
Protective veld firefighting helmet with neck shroud, yellow, NFPA/SANS/BS/EN certified	One size fits all	0595081
One-piece grass firefighting protective garment, yellow, NFPA/SANS/BS/EN certified	77 cm	0595034
One-piece grass firefighting protective garment, yellow,	82 cm	0595035

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Item	Size	SAP number
NFPA/SANS/BS/EN certified		
One-piece grass firefighting protective garment, yellow, NFPA/SANS/BS/EN certified	87 cm	0595036
One-piece grass firefighting protective garment, yellow, NFPA/SANS/BS/EN certified	92 cm	0595037
One-piece grass firefighting protective garment, yellow, NFPA/SANS/BS/EN certified	97 cm	0595038
One-piece grass firefighting protective garment, yellow, NFPA/SANS/BS/EN certified	102 cm	0595050
One-piece grass firefighting protective garment, yellow, NFPA/SANS/BS/EN certified	107 cm	0595051
One-piece grass firefighting protective garment, yellow, NFPA/SANS/BS/EN certified	112 cm	0595052
One-piece grass firefighting protective garment, yellow, NFPA/SANS/BS/EN certified	117 cm	0595053
One-piece grass firefighting protective garment, yellow, NFPA/SANS/BS/EN certified	122 cm	0595054
One-piece grass firefighting protective garment, yellow, NFPA/SANS/BS/EN certified	127 cm	0595055
One-piece grass firefighting protective garment, yellow, NFPA/SANS/BS/EN certified	132 cm	0595056
One-piece grass firefighting protective garment, yellow, NFPA/SANS/BS/EN certified	137 cm	0595057
One-piece grass firefighting protective garment, yellow, NFPA/SANS/BS/EN certified	142 cm	0595058
One-piece grass firefighting protective garment, yellow, NFPA/SANS/BS/EN certified	147 cm	0595059
One-piece grass firefighting protective garment, yellow, NFPA/SANS/BS/EN certified	152 cm	0595060
One-piece grass firefighting protective garment, yellow, NFPA/SANS/BS/EN certified	157 cm	0595061
Web belt, black	S	0596176
Web belt, black	M	0596177
Web belt, black	L	0596178
Web belt, black	XL	0596179
Web belt, black	XXL-XXXL	0596180

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<b>Item</b>	<b>Size</b>	<b>SAP number</b>
Veld firefighter personal shelter, Forest Service Specification 5100-606 certified	Not applicable	0596221
Personal torch	Not applicable	0596222
Lighter	Not applicable	0596223
Wire cutter	Not applicable	0596224
<b>Structural and large-scale firefighting</b>		
Protective helmet structural fire helmet fitted with 6" visor, black, NFPA/SANS/BS/EN certified	One size fits all	0596239
Protective hood (flash hood), NFPA/SANS/BS/EN certified	One size fits all	0160804
Protective firefighting goggles, NFPA/SANS/BS/EN certified	One size fits all	0596252
Protective firefighting gloves, NFPA/SANS/BS/EN certified	M	0594538
Protective firefighting gloves, NFPA/SANS/BS/EN certified	L	0594539
Protective firefighting gloves, NFPA/SANS/BS/EN certified	XL	0594540
Protective firefighting gloves, NFPA/SANS/BS/EN certified	XXL	0594541
Protective structural firefighting fire boots, NFPA/SANS/BS/EN certified	6 *	0596266
Protective structural firefighting fire boots, NFPA/SANS/BS/EN certified	7 *	0596267
Protective structural firefighting fire boots, NFPA/SANS/BS/EN certified	8 *	0596268
Protective structural firefighting fire boots, NFPA/SANS/BS/EN certified	9 *	0596269
Protective structural firefighting fire boots, NFPA/SANS/BS/EN certified	10 *	0596270
Protective structural firefighting fire boots, NFPA/SANS/BS/EN certified	11 *	0596271
Protective structural firefighting fire boots, NFPA/SANS/BS/EN certified	12 *	0596272
Protective structural firefighting fire boots, NFPA/SANS/BS/EN certified	13 *	0596273
Protective bunker jacket, black, NFPA/SANS/BS/EN certified	87 cm	0596274
Protective bunker jacket, black, NFPA/SANS/BS/EN certified	92 cm	0596275
Protective bunker jacket, black, NFPA/SANS/BS/EN certified	97 cm	0596276
Protective bunker jacket, black, NFPA/SANS/BS/EN certified	102 cm	0596277
Protective bunker jacket, black, NFPA/SANS/BS/EN certified	107 cm	0596278
Protective bunker jacket, black, NFPA/SANS/BS/EN certified	112 cm	0596279
Protective bunker jacket, black, NFPA/SANS/BS/EN certified	117 cm	0596280
Protective bunker jacket, black, NFPA/SANS/BS/EN certified	122 cm	0596281
Protective bunker jacket, black, NFPA/SANS/BS/EN certified	127 cm	0596282
Protective bunker jacket, black, NFPA/SANS/BS/EN certified	132 cm	0596283

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<b>Item</b>	<b>Size</b>	<b>SAP number</b>
Protective bunker jacket, black, NFPA/SANS/BS/EN certified	137 cm	0596284
Protective bunker jacket, black, NFPA/SANS/BS/EN certified	142 cm	0596285
Protective bunker jacket, black, NFPA/SANS/BS/EN certified	147 cm	0596286
Protective bunker jacket, black, NFPA/SANS/BS/EN certified	152 cm	0596287
Protective bunker trousers, black, NFPA/SANS/BS/EN certified	76 cm	0596776
Protective bunker trousers, black, NFPA/SANS/BS/EN certified	81 cm	0596777
Protective bunker trousers, black, NFPA/SANS/BS/EN certified	87 cm	0596778
Protective bunker trousers, black, NFPA/SANS/BS/EN certified	92 cm	0596779
Protective bunker trousers, black, NFPA/SANS/BS/EN certified	97 cm	0596780
Protective bunker trousers, black, NFPA/SANS/BS/EN certified	102 cm	0596781
Protective bunker trousers, black, NFPA/SANS/BS/EN certified	107 cm	0596782
Protective bunker trousers, black, NFPA/SANS/BS/EN certified	112 cm	0596783
Protective bunker trousers, black, NFPA/SANS/BS/EN certified	117 cm	0596784
Protective bunker trousers, black, NFPA/SANS/BS/EN certified	122 cm	0596785
Protective bunker trousers, black, NFPA/SANS/BS/EN certified	127 cm	0596786
Protective bunker trousers, black, NFPA/SANS/BS/EN certified	132 cm	0596787
Protective bunker trousers, black, NFPA/SANS/BS/EN certified	137 cm	0596788
Protective bunker trousers, black, NFPA/SANS/BS/EN certified	142 cm	0596789
Protective bunker trousers, black, NFPA/SANS/BS/EN certified	147 cm	0596790
Protective bunker trousers, black, NFPA/SANS/BS/EN certified	152 cm	0596791
Personal alert safety system (PASS), NFPA/SANS/BS/EN certified	Not applicable	0597203
<b>Technical rescue PPE (high-angle rescue)</b>		
Protective rescue helmet, yellow, NFPA/SANS/BS/EN certified	One size fits all	0597204
Class III life safety harness, NFPA/SANS/BS/EN certified	S-M	0597730
Class III life safety harness, NFPA/SANS/BS/EN certified	L-XL	0597731
Protective goggles, red uvex	One size fits all	0041080
Headlamp for protective helmet, intrinsically safe rated, with helmet mounting	Not applicable	0597202
Single-use medical plastic apron	One size fits all	0597200
Reflective medical jacket, navy blue	One size fits all	0597206
Nitrile medical gloves	S	0596258
Nitrile medical gloves	M	247114

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Item	Size	SAP number
Nitrile medical gloves	L	247115
Badge qualification, material, sewn on, EMS, basic life support/BAA	Not applicable	0597196
Badge qualification, material, sewn on, EMS, intermediate life support/AEA	Not applicable	0597197
Badge qualification, material, sewn on, EMS, advanced life support/CCA	Not applicable	0597198
Technical rescue gloves, NFPA/SANS/BS/EN certified	S	0597207
Technical rescue gloves, NFPA/SANS/BS/EN certified	M	0597208
Technical rescue gloves, NFPA/SANS/BS/EN certified	L	0597209
Technical rescue gloves, NFPA/SANS/BS/EN certified	XL	0597210
Technical rescue gloves, NFPA/SANS/BS/EN certified	XXL	0597211
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	6 standard fit *	0594793
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	7 standard fit *	0594794
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	8 standard fit *	0594795
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	9 standard fit *	0594796
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	10 standard fit *	0594797
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	11 standard fit *	0594798
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	12 standard fit *	0594799
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	13 standard fit *	0594800
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	6 wide fit *	0594801
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	7 wide fit *	0594802
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	8 wide fit *	0594803
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	9 wide fit *	0594804
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	10 wide fit *	0594805
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	11 wide fit *	0594806
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	12 wide fit *	0594807
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	13 wide fit *	0594808
One-piece grass firefighting protective garment, yellow, NFPA/SANS/BS/EN certified	77 cm	0595034
One-piece grass firefighting protective garment, yellow, NFPA/SANS/BS/EN certified	82 cm	0595035
One-piece grass firefighting protective garment, yellow, NFPA/SANS/BS/EN certified	87 cm	0595036

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Item	Size	SAP number
One-piece grass firefighting protective garment, yellow, NFPA/SANS/BS/EN certified	92 cm	0595037
One-piece grass firefighting protective garment, yellow, NFPA/SANS/BS/EN certified	97 cm	0595038
One-piece grass firefighting protective garment, yellow, NFPA/SANS/BS/EN certified	102 cm	0595050
One-piece grass firefighting protective garment, yellow, NFPA/SANS/BS/EN certified	107 cm	0595051
One-piece grass firefighting protective garment, yellow, NFPA/SANS/BS/EN certified	112 cm	0595052
One-piece grass firefighting protective garment, yellow, NFPA/SANS/BS/EN certified	117 cm	0595053
One-piece grass firefighting protective garment, yellow, NFPA/SANS/BS/EN certified	122 cm	0595054
One-piece grass firefighting protective garment, yellow, NFPA/SANS/BS/EN certified	127 cm	0595055
One-piece grass firefighting protective garment, yellow, NFPA/SANS/BS/EN certified	132 cm	0595056
One-piece grass firefighting protective garment, yellow, NFPA/SANS/BS/EN certified	137 cm	0595057
One-piece grass firefighting protective garment, yellow, NFPA/SANS/BS/EN certified	142 cm	0595058
One-piece grass firefighting protective garment, yellow, NFPA/SANS/BS/EN certified	147 cm	0595059
One-piece grass firefighting protective garment, yellow, NFPA/SANS/BS/EN certified	152 cm	0595060
One-piece grass firefighting protective garment, yellow, NFPA/SANS/BS/EN certified	157 cm	0595061
<b>Station uniform</b> (for full-time fire officials and core team members. ERT members at the discretion of the manager)		
BDU-style combat trousers, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	77 cm	0596748
BDU-style combat trousers, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	82 cm	0596747
BDU-style combat trousers, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	87 cm	0596746
BDU-style combat trousers, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	92 cm	0596745

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<b>Item</b>	<b>Size</b>	<b>SAP number</b>
BDU-style combat trousers, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	97 cm	0596744
BDU-style combat trousers, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	102 cm	0596760
BDU-style combat trousers, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	107 cm	0596743
BDU-style combat trousers, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	112 cm	0596753
BDU-style combat trousers, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	117 cm	0596752
BDU-style combat trousers, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	122 cm	0596751
BDU-style combat trousers, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	127 cm	0596750
BDU-style combat trousers, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	132 cm	0596749
BDU-style combat trousers, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	137 cm	0596758
BDU-style combat trousers, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	142 cm	0596757
BDU-style combat trousers, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	147 cm	0596756
BDU-style combat trousers, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	152 cm	0596755
BDU-style combat trousers, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	157 cm	0596754
BDU-style combat shirt, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	87 cm	0596710
BDU-style combat shirt, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	92 cm	0596713
BDU-style combat shirt, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	97 cm	0596715
BDU-style combat shirt, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	102 cm	0596714
BDU-style combat shirt, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	107 cm	0596712
BDU-style combat shirt, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	112 cm	0596711

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<b>Item</b>	<b>Size</b>	<b>SAP number</b>
BDU-style combat shirt, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	117 cm	0596709
BDU-style combat shirt, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	122 cm	0597052
BDU-style combat shirt, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	127 cm	0597054
BDU-style combat shirt, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	132 cm	0597195
BDU-style combat shirt, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	137 cm	0597063
BDU-style combat shirt, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	142 cm	0597051
BDU-style combat shirt, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	147 cm	0597053
BDU-style combat shirt, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	152 cm	0597049
BDU-style combat shirt, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	157 cm	0597050
BDU-style combat shirt, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	162 cm	0596708
BDU-style combat shirt, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	167 cm	0596707
BDU-style combat shirt, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	172 cm	0596706
BDU-style combat shirt, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	177 cm	0596705
BDU-style combat shirt, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	182 cm	0596704
BDU-style combat shirt, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	187 cm	0596703
BDU-style combat shirt, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	192 cm	0596702
BDU-style combat shirt, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	197 cm	0596701
BDU-style combat shirt, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	202 cm	0596700
BDU-style combat shirt, navy blue, NFPA/SANS/BS/EN certified and arc flash certified	207 cm	0596699

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<b>Item</b>	<b>Size</b>	<b>SAP number</b>
Badge qualification, material, sewn on, EMS, basic life support/BAA	Not applicable	0597196
Badge qualification, material, sewn on, EMS, intermediate life support/AEA	Not applicable	0597197
Badge qualification, material, sewn on, EMS, advanced life support/CCA	Not applicable	0597198
Jacket, thermal, navy blue and lime yellow with retro-reflective and luminous trim	S	0596817
Jacket, thermal, navy blue and lime yellow with retro-reflective and luminous trim	M	0596818
Jacket, thermal, navy blue and lime yellow with retro-reflective and luminous trim	L	0596819
Jacket, thermal, navy blue and lime yellow with retro-reflective and luminous trim	XL	0596820
Jacket, thermal, navy blue and lime yellow with retro-reflective and luminous trim	XXL	0596821
Jacket, thermal, navy blue and lime yellow with retro-reflective and luminous trim	XXXL	0596822
Jacket, thermal, navy blue and lime yellow with retro-reflective and luminous trim	XXXXL	0596823
Jacket, thermal, navy blue and lime yellow with retro-reflective and luminous trim	XXXXXL	0596824
Jacket, thermal, navy blue and lime yellow with retro-reflective and luminous trim	XXXXXXL	0596825
T-shirt, fire-proof, grey, NFPA/SANS/BS/EN certified	S	0596827
T-shirt, fire-proof, grey, NFPA/SANS/BS/EN certified	M	0596828
T-shirt, fire-proof, grey, NFPA/SANS/BS/EN certified	L	0596829
T-shirt, fire-proof, grey, NFPA/SANS/BS/EN certified	XL	0596830
T-shirt, fire-proof, grey, NFPA/SANS/BS/EN certified	XXL	0596831
T-shirt, fire-proof, grey, NFPA/SANS/BS/EN certified	XXXL	0596832
T-shirt, fire-proof, grey, NFPA/SANS/BS/EN certified	XXXXL	0596833
T-shirt, fire-proof, grey, NFPA/SANS/BS/EN certified	XXXXXL	0596834
T-shirt, fire-proof, grey, NFPA/SANS/BS/EN certified	XXXXXXL	0596835
Belt, black, 50 mm wide, 4 mm thick, high-grain leather, nickel-plated double-prong buckle	77 cm	0596857
Belt, black, 50 mm wide, 4 mm thick, high-grain leather, nickel-plated double-prong buckle	82 cm	0596855

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<b>Item</b>	<b>Size</b>	<b>SAP number</b>
Belt, black, 50 mm wide, 4 mm thick, high-grain leather, nickel-plated double-prong buckle	87 cm	0596861
Belt, black, 50 mm wide, 4 mm thick, high-grain leather, nickel-plated double-prong buckle	92 cm	0596858
Belt, black, 50 mm wide, 4 mm thick, high-grain leather, nickel-plated double-prong buckle	97 cm	0596845
Belt, black, 50 mm wide, 4 mm thick, high-grain leather, nickel-plated double-prong buckle	102 cm	0596846
Belt, black, 50 mm wide, 4 mm thick, high-grain leather, nickel-plated double-prong buckle	107 cm	0596847
Belt, black, 50 mm wide, 4 mm thick, high-grain leather, nickel-plated double-prong buckle	112 cm	0596850
Belt, black, 50 mm wide, 4 mm thick, high-grain leather, nickel-plated double-prong buckle	117 cm	0596849
Belt, black, 50 mm wide, 4 mm thick, high-grain leather, nickel-plated double-prong buckle	122 cm	0596848
Belt, black, 50 mm wide, 4 mm thick, high-grain leather, nickel-plated double-prong buckle	127 cm	0596851
Belt, black, 50 mm wide, 4 mm thick, high-grain leather, nickel-plated double-prong buckle	132 cm	0596852
Belt, black, 50 mm wide, 4 mm thick, high-grain leather, nickel-plated double-prong buckle	137 cm	0596853
Belt, black, 50 mm wide, 4 mm thick, high-grain leather, nickel-plated double-prong buckle	142 cm	0596859
Belt, black, 50 mm wide, 4 mm thick, high-grain leather, nickel-plated double-prong buckle	147 cm	0596856
Belt, black, 50 mm wide, 4 mm thick, high-grain leather, nickel-plated double-prong buckle	152 cm	0596854
Belt, black, 50 mm wide, 4 mm thick, high-grain leather, nickel-plated double-prong buckle	157 cm	0596860
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	6 standard fit *	0594793
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	7 standard fit *	0594794
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	8 standard fit *	0594795
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	9 standard fit *	0594796
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	10 standard fit *	0594797
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	11 standard fit *	0594798

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<b>Item</b>	<b>Size</b>	<b>SAP number</b>
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	12 standard fit *	0594799
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	13 standard fit *	0594800
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	6 wide fit *	0594801
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	7 wide fit *	0594802
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	8 wide fit *	0594803
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	9 wide fit *	0594804
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	10 wide fit *	0594805
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	11 wide fit *	0594806
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	12 wide fit *	0594807
Protective veld-fire footwear, black, NFPA/SANS/BS/EN certified	13 wide fit *	0594808
Socks, non-conductive, anti-static, anti-bacterial, 100% cotton/wool, knee length, black	S - M	0596893
Socks, non-conductive, anti-static, anti-bacterial, 100% cotton/wool, knee length, black	L - XL	0596894
Socks, non-conductive, anti-static, anti-bacterial, 100% cotton/wool, knee length, black	XXL - XXXL	0596895
Baseball-style, wool-acrylic blend, Velcro-adjustable, reinforced front with the Eskom Fire Risk Management logo, navy blue	One size fits all	0596961
<b>Hazardous materials</b>		
HAZMAT boot, mid-calf height, steel toe	7 *	0596999
HAZMAT boot, mid-calf height, steel toe	8 *	0597000
HAZMAT boot, mid-calf height, steel toe	9 *	0597001
HAZMAT boot, mid-calf height, steel toe	10 *	0597002
HAZMAT boot, mid-calf height, steel toe	11 *	0597003
HAZMAT boot, mid-calf height, steel toe	12 *	0597004
HAZMAT boot, mid-calf height, steel toe	13 *	0597005
Class A gas tight suit, fully encapsulated suit, hazardous chemical, visor/boots/gloves	XS	0597326
Class A gas tight suit, fully encapsulated suit, hazardous chemical, visor/boots/gloves	S	0597327
Class A gas tight suit, fully encapsulated suit, hazardous chemical, visor/boots/gloves	M	0597334
Class A gas tight suit, fully encapsulated suit, hazardous chemical, visor/boots/gloves	L	0597335
Class A gas tight suit, fully encapsulated suit, hazardous chemical, visor/boots/gloves	XL	0597336

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Item	Size	SAP number
Class A gas tight suit, fully encapsulated suit, hazardous chemical, visor/boots/gloves	XXL	0597337
Class A gas tight suit, fully encapsulated suit, hazardous chemical, visor/boots/gloves	XXXL	0597338
Class A gas tight suit, fully encapsulated suit, hazardous chemical, visor/boots/gloves	XXXXL	0597339
Class B splash protective suit, hazardous chemical	XS	0597340
Class B splash protective suit, hazardous chemical	S	0597341
Class B splash protective suit, hazardous chemical	M	0597342
Class B splash protective suit, hazardous chemical	L	0597343
Class B splash protective suit, hazardous chemical	XL	0597344
Class B splash protective suit, hazardous chemical	XXL	0597345
Class B splash protective suit, hazardous chemical	XXXL	0597346
Class B splash protective suit, hazardous chemical	XXXXL	0597347
Class C splash protective suit, non-hazardous chemicals	XS	0597348
Class C splash protective suit, non-hazardous chemicals	S	0597349
Class C splash protective suit, non-hazardous chemicals	M	0597350
Class C splash protective suit, non-hazardous chemicals	L	0597351
Class C splash protective suit, non-hazardous chemicals	XL	0597352
Class C splash protective suit, non-hazardous chemicals	XXL	0597353
Class C splash protective suit, non-hazardous chemicals	XXXL	0597354
Class C splash protective suit, non-hazardous chemicals	XXXXL	0597355
Outer HAZMAT glove, neoprene, gauntlet, durable, resistant to a wide range of chemicals as well as solvents, oils, especially acids and caustics, and greases	S	0597682
Outer HAZMAT glove, neoprene, gauntlet, durable, resistant to a wide range of chemicals as well as solvents, oils, especially acids and caustics, and greases	M	0597683
Outer HAZMAT glove, neoprene, gauntlet, durable, resistant to a wide range of chemicals as well as solvents, oils, especially acids and caustics, and greases	L	0597684
Outer HAZMAT glove, neoprene, gauntlet, durable, resistant to a wide range of chemicals as well as solvents, oils, especially acids and caustics, and greases	XL	0597685
Outer HAZMAT glove, neoprene, gauntlet, durable, resistant to a wide range of chemicals as well as solvents, oils, especially acids and caustics, and greases	XXL	0597686
Inner glove, non-hazardous chemical, 100% cotton, knitted	S	0597230
Inner glove, non-hazardous chemical, 100% cotton, knitted	M	0597231

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Item	Size	SAP number
Inner glove, non-hazardous chemical, 100% cotton, knitted	L	0597232
Inner glove, non-hazardous chemical, 100% cotton, knitted	XL	0597233
Inner glove, non-hazardous chemical, 100% cotton, knitted	XXL	0597234
<b>Fire warden/hot work</b>		
Fire protection coordinator (fire warden)	S	0565611
Fire protection coordinator (fire warden)	M	0565612
Fire protection coordinator (fire warden)	L	0565613
Fire protection coordinator (fire warden)	XL	0565614
Fire protection coordinator (fire warden)	XXL	0565615
Fire protection coordinator (fire warden)	XXXL	0565616
Fire protection coordinator (fire warden)	XXXXL	0565617
Fire protection coordinator (fire warden)	XXXXXL	0565618
Fire protection coordinator (fire warden)	XXXXXXL	0565619
Dust mask FFP2 with valve	One size fits all	0566738
Full-face mask reusable air-purifying respirator	One size fits all	0566741
Canister filter gas and combination filter	Not applicable	0566742
Canister filter organic gases and vapour	Not applicable	0566746
<b>Accessories – tog bag</b>		
Bag, kit PVC/Canvas 600 mm x 300 mm DIA blue	Not applicable	0597235

\* Generally represents UK shoe sizing.

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Table 2: Scales of issue of uniforms and equipment on personal issue

Emergency medical services	HAZMAT incidents	Technical rescue	Station wear (FULL-TIME STAFF, CORE TEAM or ERT)	Confined space rescue	Motor vehicle rescue	Structural firefighting	Wild-land firefighting	Fire warden	Hot work fire watch	<p><b>* – to be issued</b>                      (The text of the specification provides some options, for example, that a flight suit can be provided or, alternatively, the structural firefighting ensemble. Unnecessary duplication of items must be avoided and is not implied by the information in this table.)</p> <p><b>O – to be supplied when required</b>  <b># – optional/alternative to items to be issued</b></p>	Life of item in years	Quantity
								*	O	Identifying reflective bib	2	1
*		*	#	*			*			One-piece grass firefighting (flight suit)	2	2
							*			Water bottle	2	1
					*	*	*			Firefighting gloves	4	1
					*	*	*			Protective hood	4	1
*		*		*	*	*	*			Protective firefighting goggles	4	1
			*		*	*	*			Firefighter socks	2	5
*		*	*	*	#	#	*			Veld firefighting footwear	5	2
							*			Veld firefighting respirator outer (note: filters to be replaced as used)	1	1
*		*		*	*	*	*	*	O	Personal torch	5	1
							*			Veld firefighting helmet	5	1
			#				*			Web belt	3	1
					*	*	*			Burn shield	1	1
							*			Veld firefighter shelter	2	1
					*	*	#			Fire helmet with 6" visor	10 <sup>1</sup>	1
					*	*	#			Fire boots	10 <sup>1</sup>	1
					*	*	#			Bunker jacket	10 <sup>1</sup>	1
					*	*	#			Bunker trousers	10 <sup>1</sup>	1
O	O	O		O	O	O	#			SCBA	PER <sup>2</sup>	
O	O	O		O	O	O	#			Personal alert safety system	OEM <sup>3</sup>	

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*		*		*					Rescue helmet	5	1
O		*							Class III life safety harness	OEM <sup>3</sup>	
O		*		*	#				Technical/rope rescue gloves	2	1
*		*		*	#	*	*		Headlamp	4	1
*				*					Medical nitrile gloves	N/a	
*									Reflective medical jacket	4	1
	O								HAZMAT Class "A" suit	OEM <sup>3</sup>	
	O								HAZMAT Class "B" suit	OEM <sup>3</sup>	
	O								HAZMAT boots	OEM <sup>3</sup>	
	O								HAZMAT gloves	OEM <sup>3</sup>	
			*						BDU-style shirt	2	3
			*						BDU-style trousers	2	3
			*			*	*		Fire-resistant T-shirt	2	5
			*						Leather belt	4	1
			*						All-weather parka	2	1
			*						Operational cap	2	1
*									Medical plastic apron	N/a	
			*		*	*	*		Firefighting apparel bag	4	1

Notes: 1: Earlier replacement may be necessitated due to damage during use. This is true for all PPE.  
 2: PER represents that the lifespan of a SCBA is governed by the Pressure Equipment Regulations.  
 3: OEM represents that the lifespan of the equipment is governed by the original equipment manufacturer.  
 4: Replacement to be effected on an exchange basis, old for new.

**4. Acceptance**

This document has been seen and accepted by:

<b>Name</b>	<b>Designation</b>
K Pather	General Manager Sustainability Systems
M Moahlodi	Senior Manager OHS
Members	OHS Steering Committee
Members	Generation Fire Practitioner's Forum

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## 5. Revisions

Date	Rev.	Compiler	Remarks
May 2002	1	Mike Cresswell	Revised to provide for standardisation and to make provision for PPE that carries certification.
March 2015	2	Marius Atterbury	Revised to include all technologies and make provision for specification usage during procurement.
March 2020	3	Marius Atterbury	Revision cycle and correction of typing errors.

## 6. Development team

The following people were involved in the development of this document:

- Marius Atterbury

## 7. Acknowledgements

Not applicable.

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## Appendix A – Guidelines for decontamination and cleaning firefighting apparel

A.1 The following guidelines shall be used when cleaning apparel in a utility sink:

- A.1.1 Do not overload the sink.
- A.1.2 If necessary, pre-treat heavily soiled or spotted areas.
- A.1.3 Fill the sink with water not exceeding 40 °C.
- A.1.4 Add cleaning solution or detergent.
- A.1.5 Wear protective gloves and eye/face splash protection.
- A.1.6 Scrub gently using a soft bristle brush. Use extra care with the moisture barrier.
- A.1.7 Drain the water from the sink.
- A.1.8 Refill the sink; agitate using gloved hand or a stick for stirring.
- A.1.9 Gently wring out garments, and drain the water from the sink.
- A.1.10 Repeat steps 7 and 8 until garment has been thoroughly rinsed.
- A.1.11 Dry the elements.
- A.1.12 Inspect and rewash, if necessary.
- A.1.13 Rinse out the sink.

A.2 The following guidelines shall be used for machine cleaning:

- A.2.1 Do not overload the machine.
- A.2.2 If necessary, pre-treat heavily soiled or spotted areas.
- A.2.3 Fasten all closures, including pocket closures, hooks and loops, snaps, zippers hooks and dees, and so forth.
- A.2.4 Turn garment inside out, and place in mesh laundry bag.
- A.2.5 Set and start the machine cycle; use a water temperature setting not exceeding 40 °C.
- A.2.6 Add detergent.
- A.2.7 Run one complete cycle, rinsing at least twice.
- A.2.8 Dry the elements.
- A.2.9 Inspect and rewash, if necessary.
- A.2.10 If the machine is also used to wash items other than protective ensemble elements, rinse out machine by running it while empty through a complete cycle with 49 °C to 52 °C water and detergent.

A.3 Guidelines for drying firefighting apparel

- A.3.1 Organisations shall examine the manufacturer's label and user information for instructions on drying guidelines that the manufacturer provided with the ensemble or element. In the absence of manufacturer's instructions or manufacturer's approval of alternative guidelines, the drying guidelines provided in this section shall be used.
- A.3.2 The following guidelines shall be used for air drying:
  - Place elements in an area with good ventilation.
  - Do not dry in direct sunlight.
- A.3.3 The following guidelines shall be used for machine drying:
  - Do not overload the machine.
  - Fasten all closures, including pocket enclosures, hooks and loops, snaps, zippers, hooks and dees, and so forth.
  - Turn garments inside out, and place in a mesh laundry bag.
  - If the dryer has a no-heat option, use it.
  - If heat must be used, the basket temperature shall not exceed 40 °C and remove garments before they are completely dry.

### CONTROLLED DISCLOSURE

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