

**CITY OF HAMILTON**

**COMMUNITY AND EMERGENCY SERVICES DEPARTMENT**  
**Hamilton Fire Department**

<b>TO:</b> Chair and Members Emergency & Community Services Committee	<b>WARD(S) AFFECTED:</b> CITY WIDE
<b>COMMITTEE DATE:</b> November 25, 2013	
<b>SUBJECT/REPORT NO:</b> Amending the Standardization of Various Hamilton Fire Department Emergency Equipment (CS13047) (City Wide)	
<b>SUBMITTED BY:</b> Vicki Woodcox Acting General Manager Community and Emergency Services Department	<b>PREPARED BY:</b> Shawn De Jager (905) 546-2424 Ext. 3378
<b>SIGNATURE:</b>	

**RECOMMENDATION**

That Cairns 1044 Traditional composite Fire Helmet and specifications, attached as Appendix "A" to Report CS13047, be approved as the standard through December 31, 2021.

**EXECUTIVE SUMMARY**

On May 23, 2012, Council approved Report HES12009 which included the standardization of brand specific equipment with the Hamilton Fire Department noting that *"standardization of brand specific equipment within Hamilton Emergency Services – Fire (HES – Fire) will save money by reducing the cost to retrain personnel in the use and application of specialty equipment. Furthermore, the acquisition of existing makes and brands of specialized equipment will support the operational efficiency and effectiveness of personnel; thus enabling them to reduce property damage and loss of*

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*life. Moreover, the utilization of standardized equipment also supports the health and safety of the firefighters during high intensity fire ground operations.”*

and;

*“Ensuring uniform issue of critical rescue equipment reduces confusion / time delays during rescue operations as all staff will be familiar with its operation. It also reduces training costs by eliminating the need for multiple training programs for similar types of equipment. Fire has numerous worksites; therefore, a firefighter could be expected to use a piece of equipment from any apparatus at any time. Standardizing to one brand avoids confusion during emergency operations and supports operational effectiveness.”*

Report CS13047 seeks to add to the standardization of brand specific equipment as approved in Report HES12009 for the Hamilton Fire Department by standardizing the Cairns 1044 Traditional composite Fire Helmet and Specifications as detailed in Appendix “A” to Report CS13047.

This piece of equipment provides protection during structural fire fighting operations where there is a threat of fire or when certain physical hazards are likely to be encountered, such as during non-fire-related rescue operations, emergency medical operations, and victim extrication.

The standardization of this piece of equipment through to December 31, 2021 covers the life cycle of the Cairns Helmet, noting that by the year 2014, 90% of the current inventory based on current issue date will be this type of helmet. During the lifespan of the standardization, the Cairns Helmet to be purchased will be required to comply with the most current National Fire Protection Association NFPA-1971 Standards at the time of purchase.

Before the expiry date of 2021, the Hamilton Fire Department will conduct a comprehensive review to determine potential replacement equipment/specifications for this item to ensure the best and most efficient course of action is taken or if revisions to the current National Fire Protection Association (NFPA) standards dictate so.

***Alternatives for Consideration – Not Applicable***

<b>FINANCIAL / STAFFING / LEGAL IMPLICATIONS</b>
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**Financial:** There are no Financial implications associated with Report CS13047.

**Staffing:** There are no Staffing implications associated with Report CS13047.

**Legal:** There are no Legal implications associated with Report CS13047.

### **HISTORICAL BACKGROUND**

In the past, some products were purchased by using low dollar and by the approval of the Manager of Procurement. As costs increase over the years the low dollar process is not available as the need has exceeded the \$10,000 limit. Having these products standardized will allow for a more permanent solution in purchasing goods required by Fire.

The Cairns 1044 Traditional composite Fire Helmet is the current helmet in service by the Hamilton Fire Department. This helmet is NFPA-1971-2000-compliant model.

Report HES12009 was approved by Council on May 23, 2012, which approved the standardization of 14 brand specific equipment for the Hamilton Fire Department.

Report CS13047 follows this direction by adding the Cairns 1044 Traditional composite Fire Helmet and specifications to the standardized list of equipment.

### **POLICY IMPLICATIONS/LEGISLATED REQUIREMENTS**

Procurement Policy for the City of Hamilton:  
Policy #5.2 – Request for Quotations,  
Policy #5.3 – Request for Tenders,  
Policy #14 – Standardization

### **RELEVANT CONSULTATION**

Procurement Section – David Mawdsley, Procurement Specialist - Procurement was consulted in the development Report CS13047 and supports the operational rationale. The standardization of any equipment is a business decision of the applicable department.

**ANALYSIS / RATIONALE FOR RECOMMENDATION**

Fire fighting and rescue operations are very dangerous activities which require reliance on proven equipment in some of the most arduous and time sensitive situations. The recommended equipment has been researched, tested and selected by the end users. All items have been selected over the years by staff as the product that provides Fire with Department-wide:

- Equipment uniformity and consistency
- Operational effectiveness
- Consistent training (familiarity and confidence in emergency situations)
- Compliance with *Occupational Health and Safety Act* requirements
- Less equipment down time
- Reduced repair parts inventory
- Ease of repairs
- Supports efficient inventory costs and distribution.

The standardization of this product will permit the Hamilton Fire Department to specify the manufactured product when undertaking a competitive procurement process (Request for Quote or Request for Tender) from a number of vendors.

The Cairns 1044 Traditional composite Fire Helmet is the current helmet in service by the Hamilton Fire Department. This helmet is NFPA-1971-2000-compliant model and is constructed from a through-coloured composite material that resists cracking and chipping. The Cairns 1044 Helmet provides full-brim protection, SCBA front headband adjustments, and ultra-high-temperature (TPR) edge trim that will not melt or drip and outfitted with a Nomex chin strap, a flame and heat resistant earlap, eye protection, and a 3-position rear-ratchet height adjustment that ensures a comfortable fit for head sizes. Custom made leather passport fronts and inserts are provided for the 1044 fire helmet.

By 2014 over 90% of the current inventory will be comprised of this helmet specification with life expectancies of seven (7) to 10 years.

**ALTERNATIVES FOR CONSIDERATION**

None

**ALIGNMENT TO THE 2012 – 2015 STRATEGIC PLAN:**

**Strategic Priority #1**

A Prosperous & Healthy Community

*WE enhance our image, economy and well-being by demonstrating that Hamilton is a great place to live, work, play and learn.*

**Strategic Objective**

1.6 Enhance Overall Sustainability (financial, economic, social and environmental).

**Strategic Priority #2**

Valued & Sustainable Services

*WE deliver high quality services that meet citizen needs and expectations, in a cost effective and responsible manner.*

**Strategic Objective**

2.1 Implement processes to improve services, leverage technology and validate cost effectiveness and efficiencies across the Corporation.

**Strategic Priority #3**

Leadership & Governance

*WE work together to ensure we are a government that is respectful towards each other and that the community has confidence and trust in.*

**Strategic Objective**

3.4 Enhance opportunities for administrative and operational efficiencies.

**APPENDICES / SCHEDULES**

Appendix “A” to Report CS13047: Cairns 1044 Traditional composite Fire Helmet and Specifications

## Cairns 1044 Traditional Composite Fire Helmet Specifications

### Overview

The Cairns 1044 Traditional composite Fire helmet is NFPA-1971-2000-compliant model and is constructed from a through-colored composite material that resists cracking and chipping. The Cairns 1044 Helmet provides full-brim protection, SCBA front headband adjustments, and ultra-high-temperature (TPR) edge trim that will not melt or drip. Outfitted with a Nomex chin strap, a flame and heat resistant earlap, eye protection, and a 3-position rear-ratchet height adjustment that ensures a comfortable fit for head sizes.

It is anticipated that in 2014, the Hamilton Fire Department will spend between \$60,000 to \$80,000 on replacement/new helmets.

### Helmet Type by colour:

Black 1044 Cairns with:

6" Carved Eagle Brass Holder

FACE/EYE PROTECTION - 4" TUFFSHIELD W/WING

LINER - STANDARD FLANNEL

EARLAP - BLACK NOMEX

CHINSTRAP - NOMEX WITH QR AND SLIDE

REFLECTIVE TRIM - REFLEXITE

REFLECTIVE TRIM COLOR - LIME-YELLOW

p/n – MSA C-TRD-7-1-1-2-A-1-2-2-1-A

Red 1044 Cairns with

6" Carved Eagle Brass Holder

FACE/EYE PROTECTION - 4" TUFFSHIELD W/WING

LINER - STANDARD FLANNEL

EARLAP - BLACK NOMEX

CHINSTRAP - NOMEX WITH QR AND SLIDE

REFLECTIVE TRIM - REFLEXITE

REFLECTIVE TRIM COLOR - LIME-YELLOW

p/n – MSA C-TRD-7-2-1-2-A-1-2-2-1-A

White 1044 Cairns with

6" Carved Eagle Brass Holder

FACE/EYE PROTECTION - 4" TUFFSHIELD W/WING

LINER - STANDARD FLANNEL

EARLAP - BLACK NOMEX

CHINSTRAP - NOMEX WITH QR AND SLIDE

REFLECTIVE TRIM - REFLEXITE

REFLECTIVE TRIM COLOR - LIME-YELLOW

p/n – MSA C-TRD-7-4-1-2-A-1-2-2-1-A

## **PASSPORT FRONTS**

Style 49 with the following configuration:

FRONT TYPE - 6"  
ATTACHMENT TYPE P PUNCHED FOR PLASTIC  
MATERIAL - LEATHER  
FRONT COLOR - BLACK  
PANEL MATERIAL - SCOTCHLITE  
PANEL COLOR - WHITE  
TEXT FONT - FULL BLOCK ACCT  
TEXT COLOR - BLACK  
GRAPHICS TYPE - PRINTED NUMBER  
GRAPHICS COLOR - WHITE SCOTCHLITE  
SHIPPING DATA - CAIRNS HELMETS,SEE TEXT  
p/n – MSA A-PST:-2-49-P-L-B-S-W-A-B-P-S-A

Style 50 with the following configuration:

FRONT TYPE - 6"  
ATTACHMENT TYPE - PUNCHED FOR PLASTIC  
MATERIAL - LEATHER  
FRONT COLOR - BLACK  
PANEL MATERIAL - SCOTCHLITE  
PANEL COLOR - WHITE  
TEXT FONT - FULL BLOCK ACCT  
TEXT COLOR - BLACK  
GRAPHICS TYPE - NONE  
GRAPHICS COLOR - NONE  
p/n MSA A-PST:2-50-P-L-B-S-W-A-B-N-X-A

## **INSERTS**

Style 51 with the following configuration:

FRONT TYPE - 6"  
ATTACHMENT TYPE - NONE  
MATERIAL - LEATHER  
FRONT COLOR - WHITE  
PANEL MATERIAL - SCOTCHLITE  
PANEL COLOR - WHITE  
TEXT FONT - FULL BLOCK ACCT  
TEXT COLOR - BLACK  
GRAPHICS TYPE - NONE  
GRAPHICS COLOR - NONE  
p/n MSA A-PST:2-51-N-L-W-S-W-A-B