



## REFINERY STANDARD

### Sarnia Refinery PERSONAL PROTECTIVE EQUIPMENT

Livelink Number: 4000-ZSD-S-MSAFECA-00178

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Document Owner:    Manager, EH&S

Document Contact:    Occupational Hygienist

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### SCOPE AND PURPOSE

This Standard defines the Sarnia Refinery's Mandatory Personal Protective Equipment (PPE) Policy. This standard replaces S.O. #1.002 and S.13.3 of the Accident Prevention Manual – Personal Protective Equipment Program.

The purpose of this standard is to establish PPE standards and ensure required PPE is available and used by personnel to eliminate or minimize potential for occupational injury/illness.

This standard prescribes information relating to PPE in general and specific requirements for identified PPE only. For specific requirements pertaining to all other PPE items, refer to the documents listed in the References section.

### ROLES AND RESPONSIBILITIES

**Occupational Hygienist** and **Safety Specialist** are accountable to provide support, as necessary to ensure:

- appropriate PPE is selected, approved and available; and
- conformance to this standard.

**Occupational Health Advisor** is accountable to provide support regarding evaluation of medical exemptions to this standard.

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### RISK CONTROLS

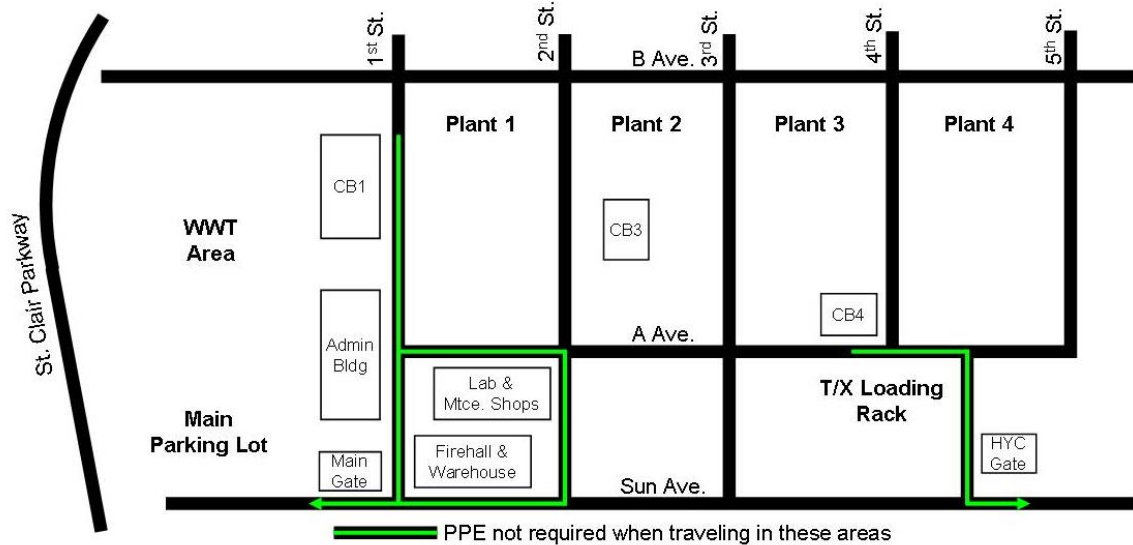
#### 1. General

- The use of PPE shall be considered the final line of defence between a worker and a hazard when engineering and administrative controls are impractical or do not provide sufficient risk reduction.
  - PPE shall be selected based on:
    - a hazard assessment of work area or work situation; and
    - the requirements of this or other standards as appropriate.
- Field level risk assessments must be conducted initially and continuously throughout the work to ensure the selected PPE remains appropriate.
- All Suncor-supplied PPE must be approved for use by the Occupational Hygienist and/or Safety Specialist. Contractors must supply their own PPE unless otherwise specifically arranged. All PPE must meet or exceed the requirements of this and all other referenced standards as appropriate.
  - Jewellery, clothing or hair shall not interfere with the effective use of PPE nor become a hazard in and of itself. When working in the immediate area of rotating equipment:
    - hair that is longer than shoulder length must be tied back; and
    - hoodie strings must not be worn.
  - The contribution of PPE to the risk of heat stress shall be considered and managed accordingly to ensure worker safety.
  - All workers shall receive appropriate instruction regarding proper selection, use and care of their PPE.
  - All PPE shall be regularly inspected by the user to ensure maintenance of the intended level of protection. PPE that is found to be damaged, worn out or otherwise un-fit for use must be taken out of service immediately and repaired or disposed of as appropriate. PPE must not be modified beyond its manufacturer-specified utilization limits.

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- Exceptions:
- PPE is not required while travelling on the roadways shown below (in green) in Figure 1.



**Figure 1 – PPE Exempt Roadways**

- Personnel riding in the following vehicles on main roadways and in the East Tank Farm do not require PPE:
  - Suncor emergency response vehicles;
  - Turnaround shuttle vehicle; and
  - Tour bus;

If the refinery emergency siren is sounded, the vehicle must return immediately to the Fire Hall/main security gate area. Radio communication inside the vehicle shall be used to establish a safe route;
- Contractors who work out of the trailers at the West end of the refinery do not require PPE while riding inside their vehicle when travelling directly between their trailer and the main security gate;
- Marine personnel and associated vendors do not require personal protective equipment provided they:
  - Walk directly between the ship and the security gate via the North or South dock walkways;
  - Do not enter the area where fall-restraint is required; and
  - Do not perform work.

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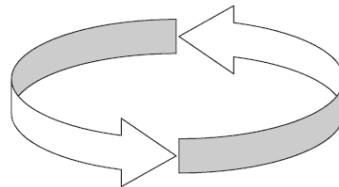
## 2. Head Protection

### Specification:

- CAN/CSA-Z94.1-05, “Industrial Protective Headwear – Performance, Selection, Care and Use”
  - Type 1 or 2
  - Class E

### Requirements:

- A hard hat is required to be worn in all areas identified in Appendix A.
- The appropriate hard hat colour shall be selected as follows:
  - Suncor employees – blue
  - TAMS tradespersons – red
  - TAMS Foremen – grey
  - Suncor Supervisors/Planners – blue
  - TAMS Supervisors/Planners – white or blue
  - Visitors – yellow
  - Alkylation Unit – green
- Hard hats shall be worn in the forward-facing position (brim to the front).
  - *Exception:* When welding activities require the hard hat to be worn backwards, a reversible hard hat, showing the CSA reverse orientation performance mark (Figure 2) shall be worn.



**Figure 2 - CSA Reverse Orientation Performance Mark**

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### 3. Foot Protection

#### Specification:

- CAN/CSA-Z195.1-02, "Guideline on Selection, Care, and Use of Protective Footwear"
  - Sole puncture protection and a grade 1 protective toe, identified by a green triangle patch (Figure 3)
  - made of leather or a non-porous material
  - with a distinct heel

#### Requirements:

- Protective footwear is required to be worn in all areas identified in Appendix A.
  - *Exception:* visitors who do not have appropriate safety footwear may wear closed-toe shoes made of leather or a non-porous material if they remain on main roadways and maintenance ways.
- Where trade or craft specific rules dictate or hazard assessments indicate additional electrical shock protection is necessary, safety boots must also have soles that provide resistance to electric shock, identified by a white rectangular patch with an orange omega symbol (Figure 4).
- The minimum boot cut height shall be 6".
  - *Exception:* Safety footwear with a boot cut height less than 6" may be worn in the Main Laboratory and Warehouse areas.
- Safety footwear must be laced/fastened to the top.



**Figure 3 – CSA Green Triangle Patch**



**Figure 4 – CSA White Rectangle Patch**

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### 4. Eye and Face Protection

#### Specification:

- CAN/CSA-Z94.3.1-09, "Selection, Use and Care of Protective Eyewear"

#### Requirements:

- Safety glasses are required to be worn in all areas identified in Appendix A.
- Spoggles or goggles should be worn when there is elevated potential for exposure to airborne particulate.
- Goggles or a faceshield must be worn when there is potential for exposure to hazardous liquids.
- A faceshield must be worn when there is potential for exposure to corrosive liquids.
- Where respiratory protection is required, a full respirator facepiece may be used in place of other eye/face protection.
- Welding helmets/face shields must be worn while welding.
- Tinted eye and face protection is recommended in bright conditions but not in low light conditions.
- Contact lenses are permitted in office areas only.
- Prescription safety eyewear is provided to Suncor employees:
  - Information regarding the [Prescription Safety Glasses Program](#) and the associated forms can be found on the Sarnia Refinery home page on The Core under "Related Links"
  - Employees are allowed the following, every 2 years:
    - 1 pair with clear lenses + 1 pair with tinted lenses; or
    - 1 pair with clear lenses + a tinted clip-on; or
    - 1 pair with photochromic lenses.
  - Lenses:
    - must be plastic or polycarbonate (not glass);
    - must provide UV protection;
    - may be bifocal if clinically required; and
    - may have a scratch resistant coating.
  - The side shields must be permanently attached.
  - Glasses must be adjusted for fit by the vendor at the time they are received by the employee.

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### 5. FR Clothing

#### Specification:

- Standard work clothing → coveralls, pants and shirts must be made of a fabric that is fire-resistant.
  - Fire-resistant clothing worn by Electricians must have a minimum Arc Thermal Protection Value (ATPV) of 8.0.
- Supplemental garments → headwear and garments that are worn over fire-resistant work clothing (i.e., jackets, parkas, disposable coveralls, rain wear or chemical protective suits) must be made of fabric that is fire-resistant or fire-retardant.
  - Note: fire-resistant fabrics are preferred and should be selected whenever available.

#### Requirements:

- Fire-resistant outer clothing, in the form of either coveralls or pants and a long-sleeved shirt, must be worn in all process units, Offsites areas and main laboratory.
  - Exceptions:
    - Fire-resistant lab coats may be worn in place of other fire-resistant clothing in the main laboratory;
    - Fire-retardant garments may be worn outside of fire-resistant clothing;
    - Members of the oil spill team who are required to wear full-length survival suits during cold water months are not required to wear fire-resistant clothing as an outer layer while at the loading docks. Fire-resistant clothing cannot be worn over the survival suits and the fire resistant qualities of this clothing is lost if worn under the suit. Training and response activities may require that team members work on the response boat as well as Docks 1 and 2. Since the cold water hazard presents a greater risk than the fire hazard, the survival suit alone may be worn; and
- Sleeves must be rolled down and buttoned at all times.
- Oily clothing must not be worn.
- Garments that are worn under fire-resistant work clothing should be made of a material that does not shrink or melt when exposed to heat (i.e., cotton, linen, rayon, wool, leather). Fabrics that melt/shrink (i.e., nylon, polyester, acrylic) should not be worn under fire-resistant work clothing.
- Fire-resistant clothing that has become contaminated with hazardous materials while on this site is not permitted to be worn outside of the Refinery. Contaminated garments that will be cleaned off-site must be identified and transported appropriately so as to prevent worker exposure to the hazardous material.
- Fire-resistant garments that will be laundered must be:
  - made of a permanently fire-resistant fabric; or

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- used only within the manufacturer’s service-life recommendations;
- All fire-resistant and fire-retardant garments must be maintained in a manner that preserves the intended level of protection.
- Standard work clothing that is provided to Suncor and Base Maintenance (TAMS, Aluma and GMS) employees will be permanently fire-resistant and shall be laundered using the facilities provided on-site.

**6. Hearing Protection**

Specification:

- CAN/CSA-Z94.2-02, “Hearing Protection Devices - Performance, Selection, Care, and Use”
  - Earplugs: Class A
  - Earmuffs: Class A or B

Requirements:

- Hearing protection must be worn:
  - in the process area defined by "A" and "B" Avenues and First and Fifth Streets;
  - in all other posted areas; and
  - in the event of unusually high noise levels in any area.
- Where signage (see Figure 5 below) and/or a hazard assessment indicates that double hearing protection is required, both ear plugs and muffs must be worn.
- Identified double hearing protection areas include, but may not be limited to, underneath the following heaters when they are running:

<u>Plant 1:</u>			<u>Plant 2:</u>	<u>Plant 3:</u>
11H101	12H102	12H116	24H001	32H001
11H113	12H104	19H001	24H002	32H002



**Figure 5 – Double Hearing Protection Signage**



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**7. Hand/Wrist Protection**

Requirements:

- Appropriate gloves shall be selected based on a hazard assessment for the work area and activity. The hazard assessment should consider the potential for damage to the hands via cuts, abrasions, extreme temperatures, skin irritation/dermatitis, contact with toxic or corrosive materials and electricity.
- Hands and wrists must be covered in an offsites or process area.
- Adequate wrist coverage may be achieved via:
  - Gauntlet gloves with a minimum 4" cuff length; and/or
  - Wristlets in addition to regular gloves.
- Sleeves must be rolled down and buttoned at all times.
- A variety of different types and sizes of gloves shall be available to ensure appropriate protection may be achieved.
- The use of gloves is not recommended where operation of machinery, tools or equipment may result in entanglement.
- A receptacle for hydrocarbon contaminated cotton/leather gloves shall be provided in all control rooms. These gloves shall be collected and laundered on a regular basis.

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### 8. Wireless Personal Gas Detectors (WPGD), Personal H<sub>2</sub>S Monitors and Wireless RFID Badges

#### Requirements

- All personnel must wear one of the following personal gas monitors on the outside of their PPE when entering or working in process units, Offsites areas and the Lab:
  - Wireless personal gas detector (WPGD); or
  - Personal single-gas H<sub>2</sub>S monitor.
- The purpose of the personal H<sub>2</sub>S monitor is *only* to provide a local alarm if H<sub>2</sub>S gas is detected.
- Additional safety functionalities are available in the WPGD including:
  - Connected H<sub>2</sub>S and LEL gas alarms. Alarm conditions that meet prescribed thresholds will signal an alarm to the Operations control board; and
  - Connected panic button.

These functionalities are only effective in Safety and Productivity (SPS) monitored areas.

- All regular site personnel are required to wear the WPGD when working in SPS monitored areas.
- Short-term personnel may wear personal H<sub>2</sub>S monitors in SPS monitored areas. Short-term personnel groups can be classified into three types for the purposes of accessing SPS monitored areas on site:
  1. No prior site-specific training:
    - A WPGD may not be worn;
    - A personal H<sub>2</sub>S monitor will be provided; and
    - 100% escort is required.
  2. Has site-specific training (with WPGD training):
    - A WPGD is to be obtained as directed in training or via Security or the site contact, as applicable.
  3. Has site-specific training (without WPGD training):
    - A WPGD may not be worn; and
    - Instruction regarding device usage will be provided by Security or the site contact, as applicable.
- See Appendix B for common short-term personnel group requirements regarding personal gas monitors. If unsure of what device is required, please consult your Suncor Site Contact.
- The Wireless RFID Badge is an SPS device utilized for larger scale events such as outages and turnarounds. Wireless RFID Badges are equipped with a panic button that is only effective in SPS monitored areas.

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- Personnel assigned to wear the Wireless RFID Badges are also required to wear a personal H<sub>2</sub>S monitor.

**9. PPE for Caustics and Acids (other than HF Acid)**

Requirements:

- The following PPE shall be worn while conducting work within areas that contain caustic and/or acids other than HF Acid.

<b>Task(s) Performed</b>	<b>Required PPE</b>
Intrusive activities involving caustic/acid-containing equipment. For example: <ul style="list-style-type: none"> <li>• Safing;</li> <li>• Product transferring activities;</li> <li>• Breaking/opening equipment/lines.</li> </ul>	<ul style="list-style-type: none"> <li>• Hard hat equipped with faceshield;</li> <li>• Optional goggles;</li> <li>• Caustic/acid-resistant gauntlet gloves;</li> <li>• Caustic/acid-resistant jacket and pants or long (below the knee) jacket; and</li> <li>• Caustic/acid-resistant boots.</li> </ul>
Low risk Maintenance activities where no physical contact with caustic/acid-containing equipment is to be made. For example: <ul style="list-style-type: none"> <li>• Non-intrusive maintenance on equipment that is in caustic/acid service (i.e., insulation, inspection, scaffolding, electrical work, etc...);</li> <li>• Maintenance on equipment that is not in caustic/acid service but is located within an orange dyke-walled area (i.e., water, hydrocarbons, steam, brine, etc...).</li> </ul>	<ul style="list-style-type: none"> <li>• Hard hat equipped with faceshield;</li> <li>• Caustic/acid-resistant gauntlet gloves;</li> <li>• Caustic/acid-resistant jacket; and</li> <li>• Optional acid resistant boots.</li> </ul>
Low risk Operator activities where no physical contact with caustic/acid-containing equipment is to be made. For example: <ul style="list-style-type: none"> <li>• Rundowns, visual inspection, operating systems not containing caustic/acid, etc...</li> </ul>	<ul style="list-style-type: none"> <li>• Hard hat equipped with faceshield;</li> <li>• Caustic/acid-resistant gauntlet gloves;</li> <li>• Recommended caustic/acid-resistant jacket; and</li> <li>• Optional acid resistant boots.</li> </ul>

- Exceptions:
  - Alky PPE shall be worn by workers performing caustic work within the Alkylation Unit;
  - Standard welding PPE (i.e., welding hood and leather gloves) may be worn if welding within a neutralized work area and there is no potential for caustic/acid exposure;

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- A face shield is not required if a full-face respirator is worn; and
- With approval from Operations, lighter duty (i.e., green Solvex) gloves may be worn for low risk work activity requiring fine dexterity.
- Caustic/acid PPE is to be available from the following locations:
  - Plant 1: Alky Unit Contractor Changeroom, changehouse near H113/H116 and Glegg Building;
  - Plant 2: Old Plant 2 ASO change building, located North of 21V007.
  - Plant 3/4: Plant 4 Water Treatment Building
- All caustic/acid PPE changing facilities shall be supplied with an appropriate quantity of clean PPE and a bin for collection of used PPE.
- Used caustic/acid PPE is to be collected and transported to the Contractor's Alky Unit Changeroom for cleaning in the same manner as Alky PPE.

### 10. Fire Fighting PPE

#### Specification:

- NFPA 1971, "Standard on Protective Clothing for Structural Fire Fighting"
- NFPA 1972, "Standard on Helmets for Structural Fire Fighting"
- NFPA 1973, "Standard on Gloves for Structural Fire Fighting"
- NFPA 1974, "Standard on Protective Footwear for Structural Fire Fighting"

### 11. Other PPE Requirements

#### Personal Flotation Device:

- A life jacket must be worn when a worker is exposed to the risk of drowning and a fall-restraint system is not available.

#### Traction Aids:

- Non-sparking traction aids must be worn, by all personnel who are required to wear protective footwear, when walking or working in areas where snow and/or ice presents a slip hazard risk. These areas may include, but are not limited to, un-shovelled walkways, Offsites areas and off-path equipment access areas.
- Traction aids are not to be worn in areas where acid or caustic PPE is required. These areas include, but are not limited to, the Alkylation unit and UOP Treater area.
- For those that are required to wear traction aids, they must be carried on your person from December 1<sup>st</sup> through February 28<sup>th</sup>, or as otherwise directed by site-wide EH&S communication, to ensure they are available immediately if a slip hazard is encountered.

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- Traction aids must be used in accordance with manufacturer instructions and must not be worn on surfaces that will create further hazards such as concrete or asphalt that is clear of snow and ice, ladders, scaffolding, structural steel, while operating a vehicle or mounting/dismounting a piece of equipment, inside of buildings or any other clean/dry surface where a slipping hazard might be created.

### DEFINITIONS

***Fire-Resistant*** Resists burning and withstands heat.

***Fire-Retardant*** Able to slow or stop the spread of fire.  
**Note:** fire-retardant may also be defined as a substance applied to a fabric to impart fire-resistance.

***Gauntlet Glove*** A glove with an extended cuff that covers the wrist and part of the forearm. (Gauntlet gloves may be made from a variety of different materials).

***Photochromic Lenses*** Lenses that darken upon exposure to UV radiation (i.e., from sunlight). Once the UV is removed, the lenses will return to their clear state.

### REFERENCES

[Respiratory Protection Standard](#)

[Fall Protection Standard](#)

[Personal Protective Equipment: Hydrofluoric Acid and Acid Soluble Oil](#)

[Handling and Disposal of Laboratory Materials](#)


[Electrical Safe Work Practices Manual](#)

[Heat Stress Control Standard](#)

**END OF STANDARD**

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		REVISION LOG	
Date MM/DD/YYYY	Revision	Section	Comment
07/25/2009	Original		Transferred into "Standard" template. Revision #Original. Replaces S.O. #1.002.
03/31/2011	1	1. General	Added PPE requirements for CSX Rail Switching (includes new hard hat exemption).
			Added PPE exemption for Marine personnel and associated vendors.
		4. Clothing Standard	Removed statement re: CSX personnel exempt from wearing FR clothing when completing rail switches (the exemption remains, the statement was considered redundant with the information in section 1).
		Header	Document Contact changed from Manager, Operations Program to Manger, EH&S.
06/25/2012	2	All	Updated format and placed in new template but content was NOT altered.
08/01/2012	3	All	<ul style="list-style-type: none"> <li>General reformatting, rewording and omitting of redundant statements.</li> <li>Updated Refinery map showing FR clothing exemptions.</li> <li>Amalgamated APM PPE Program document</li> </ul>
		1. General	<ul style="list-style-type: none"> <li>Added statement prohibiting hoodie strings to be worn in the immediate area of rotating equipment.</li> <li>Added map showing PPE exempt roadways (moved from FR Clothing section). Removed PPE exemption for A Avenue between Maintenance Shops and CB4.</li> <li>Revised PPE exemption for people riding in vehicles on main roadways and in the East Tank Farm to include only specified vehicles and situations.</li> </ul>
		2. Head Protection	<ul style="list-style-type: none"> <li>Revised and completed hard hat colour designations list.</li> <li>Added requirement for CSA approved reversible hard hat when required to be turned backwards for welding activities.</li> </ul>

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		4. Eye and Face Protection	<ul style="list-style-type: none"> <li>Added requirements regarding the use of specific eye and face protectors.</li> <li>Added allowance for employees to obtain tinted or photochromic prescription safety glasses.</li> </ul>
		5. FR Clothing	<ul style="list-style-type: none"> <li>Removed “Nomex” brand reference.</li> <li>Prescribed fire-resistant clothing for standard work clothing and fire-resistant or fire-retardant clothing for supplemental garments.</li> <li>Recommended that garments worn under fire-resistant clothing be made of fabric that does not shrink or melt when exposed to heat.</li> <li>Revised statement prohibiting FR clothing to be worn off-site to include only contaminated garments.</li> <li>Added requirements regarding maintenance and laundering of fire-resistant garments.</li> </ul>
		6. Hearing Protection	<ul style="list-style-type: none"> <li>Redefined the boundaries of the process areas to between “A and B avenues and First and Fifth Streets” to include Plant 4.</li> <li>Added requirement to wear both ear plugs and muffs where signage and/or hazard assessment indicates that double hearing protection is required.</li> </ul>
		7. Hand Protection	<ul style="list-style-type: none"> <li>Added glove selection considerations.</li> <li>Added statement discouraging the use of gloves where the potential for entanglement exists.</li> <li>Removed glove selection table.</li> </ul>
		10. Other PPE Requirements	<ul style="list-style-type: none"> <li>Specified that a life jacket is to be worn when there is a risk of drowning and a fall-restraint system is not available.</li> <li>Removed statement regarding PPE required when inserting/removing retractable corrosion coupons (deemed more appropriately located within Maintenance documentation).</li> </ul>
		Definitions	<ul style="list-style-type: none"> <li>Added definitions for “fire-resistant”, “fire-retardant” and photochromic lenses.</li> </ul>
07/24/2013	-	Header	<ul style="list-style-type: none"> <li>Document Owner &amp; Contact Updated, but NO content changed. (L. Lebert)</li> </ul>

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	4	1. General	<ul style="list-style-type: none"> <li>Added consideration of the contribution of PPE to heat stress.</li> </ul>
		6. Hearing Protection	<ul style="list-style-type: none"> <li>Added allowance for Class B earmuff.</li> </ul>
		9. PPE for Caustics and Acids (other than HF Acid)	<ul style="list-style-type: none"> <li>Added section. Note: this changed caused the numbering of subsequent sections to change also.</li> </ul>
		References	<ul style="list-style-type: none"> <li>Added referenced to the Heat Stress Control standard.</li> </ul>
03/31/2016	5	7. Hand/Wrist Protection	<ul style="list-style-type: none"> <li>Section retitled from "Hand Protection".</li> <li>Requirement added for both hands and wrists to be covered in Offsites and process areas.</li> <li>Clarification regarding adequate wrist coverage provided.</li> <li>Requirement added for sleeves to be rolled down and buttoned at all times.</li> </ul>
		Definitions	<ul style="list-style-type: none"> <li>Definition added for "Gauntlet Glove".</li> </ul>
01/17/2017	6	3. Head Protection	<ul style="list-style-type: none"> <li>Added allowance for Type 2 hard hats.</li> </ul>
10/03/2018	7	4. Eye and Face Protection	<ul style="list-style-type: none"> <li>Direction regarding information and forms for prescription safety eyewear updated and link provided</li> </ul>
		6. Hearing Protection	<ul style="list-style-type: none"> <li>Added list of double hearing protection areas</li> <li>Added picture of DHP sign (Figure 5)</li> </ul>
		11. Other PPE Requirements	<ul style="list-style-type: none"> <li>Added requirement to wear traction aids. eSign page lost due to edit. Approved by T. Murray</li> </ul>
11/28/2018	8	11. Other PPE Requirements	<ul style="list-style-type: none"> <li>Added statement that traction aids are not to be worn where acid/caustic PPE is required.</li> </ul>
01/31/2019	9	8. Wireless Personal Gas Detectors (WPGD) and H2S Monitors	<ul style="list-style-type: none"> <li>Added section 8: 'Wireless Personal Gas Detectors (WPGD) and H2S Monitors' to describe new requirements for SPS devices.</li> </ul>
		Appendix B	<ul style="list-style-type: none"> <li>New</li> </ul>
03/16/2020	10	8. Wireless Personal Gas Detectors (WPGD), Personal H2S Monitors and Wireless RFID Badges	<ul style="list-style-type: none"> <li>Added info re: Wireless RFID badges</li> <li>Added info re: additional safety functionalities available in the WPGD</li> <li>Reformatted some info to provide clarity</li> </ul>





**APPENDIX A**  
**Standard Refinery PPE – Minimum Requirements by Area**

Document Number:  
 4000-ZSD-S-  
 MSAFECA-00178

**Standard Refinery PPE - Minimum Requirements by Area**

Area	MINIMUM PROTECTION REQUIRED			
	FR Clothing	Safety Glasses	Safety Footwear	Hard Hat
Process Areas	Yes	Yes	Yes	Yes
Offsites Areas	Yes	Yes	Yes	Yes
Instrument Shops	No	Yes	Yes	Overhead Work Only
Insulator's Shop	No	Yes	Yes	Overhead Work Only
Carpenter's Shop	No	Yes	Yes	Overhead Work Only
Painter's Shop	No	Yes	Yes	Overhead Work Only
Maintenance Shop	No	Yes	Yes	Overhead Work Only
Maintenance Yard	No	Yes	Yes	Overhead Work Only
Electrical Sub Bldg	Yes	Yes	Yes	Overhead Work Only
Warehouse	No	Yes	Yes	Overhead Work Only
Warehouse Yard – East	Yes	Yes	Yes	Overhead Work Only
Warehouse Yard – West	No	Yes	Yes	Overhead Work Only
Laboratory	Yes	Yes	Yes	Overhead Work Only
CSX Personnel**	No	Yes	Yes	No
Office Areas*	No	No	No	No
Control Rooms*	No	No	No	No
Lunch Rooms*	No	No	No	No

\*PPE is required, as appropriate, for industrial/commercial work in these areas.

\*\*This applies only to CSC personnel who arrive via train for the purpose of loading material. Other workers who perform maintenance on the train tracks must adhere to the site's PPE requirements for the work area.

**Note: Requirements for personal gas monitors are detailed in Appendix B.**



**APPENDIX B**  
**Personal Gas Monitor Requirements for Common**  
**Short-Term Personnel Groups**

Document Number:  
 4000-ZSD-S-  
 MSAFECA-00178

#	Personnel	STOP Trained?	In SPS Monitored Area	Device Provided On-Site	Action For	Action Required
1	Slop Trucks	Yes	Yes	WPGD	Security	<ul style="list-style-type: none"> <li>Device Issue and Check In / Out Controlled through Security</li> </ul>
2	SGS Dock Personnel	Yes	Yes	WPGD	Security	<ul style="list-style-type: none"> <li>Device Issue and Check In / Out Controlled through Security</li> </ul>
3	Consultants & SMEs	No	No	Personal H <sub>2</sub> S Monitor	Suncor Site Contact / Security	<ul style="list-style-type: none"> <li>Escort visitor when in the SPS Monitored Area</li> <li>Provide H<sub>2</sub>S Monitor if the visitor does not have one</li> </ul>
4	Maintenance Trucks	Yes	Yes	Personal H <sub>2</sub> S Monitor	Suncor Site Contact	<ul style="list-style-type: none"> <li>Escort visitor when in the SPS Monitored Area</li> <li>Provide H<sub>2</sub>S Monitor if the visitor does not have one</li> </ul>
5	Bulk Delivery Trucks	No	No	Personal H <sub>2</sub> S Monitor	Security / Permit Issuer	<ul style="list-style-type: none"> <li>Escort visitor when in the SPS Monitored Area</li> <li>Provide H<sub>2</sub>S Monitor if the visitor does not have one</li> </ul>
6	Bulk Chemicals Delivery Trucks	No	No	Personal H <sub>2</sub> S Monitor	Security	<ul style="list-style-type: none"> <li>Provide H<sub>2</sub>S Monitor if the visitor does not have one</li> </ul>
7	Emergency Response (eg. Police, Fire, Ambulance)	No	No	Personal H <sub>2</sub> S Monitor	Security	<ul style="list-style-type: none"> <li>Provide H<sub>2</sub>S Monitor if the visitor does not have one</li> </ul>
8	NOVA	Yes	Yes	Personal H <sub>2</sub> S Monitor	Security	<ul style="list-style-type: none"> <li>Provide H<sub>2</sub>S Monitor if the visitor does not have one</li> </ul>
9	Warehouse Delivery Trucks	No	No	Personal H <sub>2</sub> S Monitor	N/A	<ul style="list-style-type: none"> <li>N/A</li> </ul>



The following individuals have approved and signed this document.

UserName: Todd Murray (toddmurray)

Title: Manager EH&S Sarnia Refinery

Date: Saturday, 28 March 2020, 01:25 AM Mountain Time

Meaning:

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