

	LOS ANGELES REFINERY HEALTH & SAFETY STANDING INSTRUCTION	HSS-610	
	SAFETY SHOWER AND EYEWASH STATIONS	Page 1 of 8	
		Review Date: 6/11/2018	Rev: 3

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3	Rinaldo Edmonson	Mike Kulakowski	6/11/2018
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1.0 INTRODUCTION

1.1 Purpose

Improve employee safety through understanding of eyewash and safety shower practices.

1.2 Scope

This standing instruction applies to all personnel, working the refinery or production areas who are or may become exposed to or in contact with harmful or corrosive chemicals.

2.0 REFERENCES

2.1 Governmental Standards

2.1.1 Title 8, California Code of Regulations, Section 5162

2.1.2 Title 8, California Code of Regulations, Section 6822

2.1.3 29 CFR 1910.151 Medical and First Aid

2.2 Industrial Standards

2.2.1 ANSI Z358.1-2014 Eyewash Standard

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3.0 DEFINITIONS

Term	Description
Combination Unit	An interconnected assembly of emergency equipment supplied by a single source of flushing fluid.
Drench Hose	A supplemental device consisting of a flexible hose connected to a flushing fluid supply and used to provide fluid to irrigate and flush face and body areas
Emergency Shower	A device specifically designed and intended to deliver flushing fluid in sufficient volume to cause that fluid to cascade over the entire body
Eye Wash	A device used to provide fluid to irrigate and flush the eyes
Eye/Face Wash	A device used to provide fluid to irrigate and flush both the face and the eyes simultaneously
Flushing Fluid	Potable water, preserved water, preserved buffered saline solution or other medically acceptable solution manufactured and labeled in accordance with applicable government regulations.
Hazardous Material	Any substance or compound that has the capability of producing ANSI/ISEA Z358.1-2014 adverse effects on the health and safety of humans
Permenant	An interconnected assembly of emergency Eye/Face Wash or Safety Shower equipment connected to a system capable of supplying adequate flushing fluid to meet the flushing fluid requirements.
Personal Wash Unit	A supplementary device that supports plumbed and/or self-contained units, by delivering immediate flushing fluid to the eyes or body.
Potable Water	Water that is suitable for drinking
Self Contained	Poratable Eye/Face Wash or Safety Shower equipment which have the same requirements as with the plumbed units regarding the unit's ability to provide flushing liquid for at least 15 minutes, accessible access, and to deliver tepid flushing fluid.
Supplemental Equipment	Eyewash bottles, Drench Hoses or personal eyewash units are portable and permit immediate flushing of contaminants or small particles. However, eyewash bottles are very difficult for the user to handle, especially when alone and when both eyes have been exposed. (e.g., holding the eyelids open while handling the unit is awkward).
Tepid Fluid	A flushing fluid temperature conducive to promoting a minimum 15 minute irrigation period. A suitable range is 16 - 38° C (60 -100° F).
User	Any employee who is in work areas where, during routine operations or foreseeable emergencies, the eyes of an employee may come into contact with a substance which can cause corrosion, severe irritation or permanent tissue damage or which is toxic by absorption.

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4.0 SAFETY SHOWERS/EYEWASH STATIONS DRIVER

4.1 Eye-Wash/Safety Shower Stations Driver (s)

4.1.1 Permanent or portable Eye/Face Wash or Safety Shower stations, shall be provided at all work areas where the eyes of an employee may come into contact with a substance which can cause corrosion, severe irritation or permanent tissue damage or which is toxic by absorption.

Example of areas requiring permanent or portable eye-wash/safety shower are:

- Any work area that uses Sulfuric Acid, Isobutane, Ammonia etc.
- Any open work areas, which are uncovered (e.g. fabrication areas, tank farms etc.) that is prone to flying particulants due to work environment (e.g. grinding on metal or working under windy conditions).

4.2 Location

4.2.1 Eye/Face Wash or Safety Shower stations should be assessable within 10 seconds (approximately 55 feet away) from the hazard.

4.2.2 Eye/Face Wash or Safety Shower stations should not be placed in a hazardous work area (if applicable).

4.2.3 Eye/Face Wash or Safety Shower stations access shall not be impeded.

4.2.4 Eye/Face Wash or Safety Shower stations areas shall be kept clear of barricades, trash drums, toolboxes and other miscellaneous material/equipment that can block or limit accessibility.

5.0 GENERAL EYE-WASH/SAFETY SHOWER STATIONS REQUIREMENTS

Eye/Face Wash or Safety Shower stations shall be provided as a means of first aid in all locations where personnel are exposed to or may come in contact with harmful or corrosive chemicals. All eye/face washes stations must be installed in a well-lit area and identified with a highly visible safety sign. All personnel must know the location of the Eye/Face Wash or Safety Shower stations and identify it on the JHA prior to beginning work.

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5.1 Plumbed (Permanent) Eye-Wash/Safety Shower Stations

- 5.1.1 The location of the Eye/Face Wash or Safety Shower stations should be selected so that the shower itself is outside the danger area and will not become ineffective as a result of an accidental release of a material for which the protection is provided.
- 5.1.2 When practical, Eye/Face Wash or Safety Shower stations should be located to serve more than one required location.
- 5.1.3 When both Eye/Face Wash or Safety Shower stations are needed, they shall be positioned so they may be used at the same time by one person.
- 5.1.4 Eye/Face Wash or Safety Shower stations must be installed on the potable water line to avoid contamination.
- 5.1.5 Eye/Face Wash or Safety Shower stations shall not tie into process equipment.
- 5.1.6 Emergency Eye/Face Wash or Safety Shower stations shall be designed, manufactured and installed in such a manner that, once activated, they can be used without requiring the use of the operator's hands.

5.2 Self-Contained (Portable) Eye/Face Wash Stations

- 5.2.1 If a portable eye/face washes is located at the job site, for one (1) week or more, the unit shall be visually checked, by the user, to verify that each unit is clean, completely filled, and operating correctly prior to use. If not return unit to Safety Issue for a replacement unit that is clean and filled.
- 5.2.2 Portable eye/face washes shall be placed to allow the height of the flushing fluid pattern not less than 33 inches and no greater than 53 inches from the surface on which the user stands;
- 5.2.3 Portable eye/face washes shall be set up in a shaded area, during the day, to help ensure the inside fluid temperature shall not exceed the tepid water range of 60°-100°F.
- 5.2.4 Ensure that the portable eye/face washes is capable of delivering a minimum of 0.4 gallons per minute and that the flushing fluid covers the areas between the interior and exterior lines of the gauge at some point less than 8 in. above the eyewash nozzle(s), this flush flow will meet this 15 minute flush requirement.
- 5.2.5 Portable eye/face washes stations must be installed in a well-lit area and identified with a highly visible safety sign.

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5.3 Drench Hose (Supplemental Equipment)

- 5.3.1 Drench hoses shall be free of debris and anything stopping the free flow of flushing fluid.
- 5.3.2 Drench hoses shall provide a controlled flow of flushing fluid to a portion of the body at a velocity low enough to be non-injurious to the user.
- 5.3.3 A drench hose may be considered an eyewash or eye/face wash if the drench hose meets the performance requirements of an eye/face wash station.

5.4 Personal Wash Units (Supplemental Equipment)

- 5.4.1 Personal wash units (including various ansi approved bottles eyewashes) may be kept in the immediate vicinity of employees working in a potentially hazardous area but are considered to be supplemental equipment and do not meet the 15 minute flush period.
- 5.4.2 The main purpose of these units is to supply immediate flushing . Affected users should then proceed to a plumbed or self-contained Eye/Face Wash or Safety Shower station and flush the affected area for the required 15-minute period.

6.0 INSPECTION AND MAINTENANCE

6.1 Inspection

- 6.1.1 Safety department (Safety Issue Wilmington/SRP and Safety Mechanics-Carson) will inspect and maintain portable eye/face washes and drench hoses that are issued from Safety issue on a weekly, according to the manufactures recommendations. Contract companies are responsible to inspect and maintain their own company portable eye/face washes stations.
 - If a portable eye/face washes and drench hose is found to need servicing or is defect the user shall notify Safety Issue to sevice, repair or replace the portable eye/face washes and drench station.
 - The contractor company shall repair or replace all of their company owned defective portable eye/face washes stations and drench hose that are found to need servicing.

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6.2 Maintenance

- 6.2.1 Maintenance checks and inspection of all permanent Safety Showers/Eyewash stations shall be according to the manufactures recommendations.
- 6.2.2 All permanent Safety Showers/Eyewash Stations will be activated monthly to flush the line and verify proper operation by;
 - Safety Mechanics at Carson
 - Operations having area jurisdiction at Wilmington
- 6.2.3 If shut off valves are installed on the supply line for maintenance purposes, provisions must be in place to prevent unauthorized shut off such as the use of Lock out/tag out;
- 6.2.4 Any defective safety shower/eyewash stations should be reported to the Safety Mechanics.

7.0 TRAINING

7.1 General User Awareness Training

- 7.1.1 Anyone entering the process units must be trained on safety shower/eyewash usage.

8.0 SUPPLY INFORMATION

8.1 Supply and Manufacturers Information

- 8.1.1 All supplies, equipment and Manufacturers information can be obtained through Safety Issue at Carson, storehouse at the SRP and Wilmington, and the Safety Department at the Calciner.

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9.0 REVISION LOG

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Integrated FS 764 - EYEWASHES AND SAFETY SHOWERS documents into one LAR site document. Updated the instruction to comply with OSHA, Cal OSHA regulations and industry standard.			

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