



**Duke University - Facilities Management Department
Environmental Safety and Health Program**

Emergency Eyewash And Safety Shower Program

Area: All FMD Organizations	Date Effective: 11/27/2015
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A. Purpose

1. The purpose of this program is to outline proper emergency eyewash and safety shower usage, maintenance, and inspection to protect FMD employees against occupational injuries resulting from exposure to injurious corrosive materials.

B. Scope

1. This program applies to FMD maintenance employees (Facility Operations, DUES, Landscape Services and Housekeeping).

C. Policy

1. FMD will take all reasonable measures to provide a safe workplace. All FMD operations must be performed in a manner which will prevent any undesirable effects to FMD and/or Duke employees, assets, the local community, and the environment.
2. The provisions of this program and all applicable standards will be followed to ensure the safety of personnel performing service or maintenance activities to equipment, machines, or systems.

D. Definitions-

1. **American National Standards Institute (ANSI)** - is a private non-profit organization that oversees the development of voluntary consensus standards for products, services, processes, systems, and personnel in the United States. ANSI Z358.1 standard establishes a universal minimum performance and use requirements for all Eyewash and Drench Shower equipment used for the treatment of the eyes, face, and body of a person who has been exposed to hazardous materials and chemicals.
2. **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 eyes, face and body areas.
3. **Eyewash Station**- a cleansing receptacle for the purpose of emergencies in which eyes must be quickly flushed with water.
4. **Plumbed Equipment**- equipment permanently connected to a potable source of water.
5. **Safety Shower**- a device specifically designated and intended to deliver flushing fluid in sufficient volume that ensures fluid cascades over the entire human body.
6. **Special Lab Requirements**- Labs may follow a different inspection schedule if they do not have proper drainage to conduct quarterly testing themselves. If they do have proper drainage and can test themselves, labs are required to test weekly (see Section I).

E. Responsibilities

1. FMD maintenance employees required to maintain emergency eyewash and safety shower stations are responsible for the following:
 - a. While testing the emergency eyewash or shower equipment, use appropriate personal protective equipment (PPE) for the space where the eyewash or safety shower is located.
 - b. Changing out each unit's old documentation tag with a new one during the annual inspection.
 - c. Repairing eyewash and safety shower units when necessary.

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- d. Contacting the control room operator on duty, at 660-4243, prior to testing the remotely monitored eyewash stations in the steam and chilled water plants, so that it can be verified that the alarm is working.
- e. FMD employees conducting the inspection shall contact the High Voltage Shop, at 660-4248, prior to testing the remotely monitored eyewash stations in the High Voltage Shop, so that it can be verified that the alarm is working.
- 2. All FMD employees, as emergency eyewash and safety shower end users, are responsible for the following:
 - a. If conducting work that may necessitate the use of an emergency eyewash or shower, ensure awareness of the location of the nearest one. FMD "owned" emergency eyewashes and safety showers are located in the Steam Plants, Chilled Water Plants, Garages and Maintenance Areas, Mechanical Rooms, Water Treatment Chemical Rooms/Areas, Pool Water Treatment Rooms/Areas, Trade Shop Work Areas, Recycles Area, and Battery Rooms.
 - b. Familiarizing themselves with how to activate the eyewash or safety shower in case of emergency.
- 3. FMD managers are responsible for the following:
 - a. Notifying their employees of the purpose of the Emergency Eyewash & Shower Safety Program.
 - b. Utilizing the Emergency Eyewash & Shower Standard Operating Procedure outlining the inspection, testing and maintenance requirements.
 - c. Training responsible maintenance personnel on testing and inspection procedures.
 - d. Contacting FMD Safety regarding any emergency eyewash or shower related accessibility issues.
 - e. Ensuring that when an eyewash or safety shower has to be taken out of service for repair, a portable/temporary one is in place, or operations necessitating the eyewash or safety shower are stopped. For any questions regarding this, contact FMD Safety.
- 4. OESO is responsible for the following:
 - a. Duke Safety Manual Supplement O: Emergency Eyewash and Shower Equipment Program oversight and compliance auditing.

F. Inspection(s) and Maintenance Schedule

- 1. Weekly
 - a. Emergency eyewashes (and other devices that may be used to flush the eyes) must be actuated weekly by personnel within the respective work area to flush and verify proper operation.
 - b. FMD maintenance employees are responsible for the inspection and maintenance for all FMD owned eyewashes in unmanned areas.
 - c. FMD plant employees are responsible for the inspection and maintenance for all eyewashes in FMD owned utility plants.
 - d. This activity will be documented on a tag attached to the device, a nearby check sheet, or when the responsibility of FMD, via the electronic document system.

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2. Quarterly
 - a. For emergency eyewashes and drench hoses that do not have proper drainage (no plumbed drain, sink, or collection bucket), there will be a quarterly inspection by FMD who will actuate the device to flush and verify proper operation. These are set up on a schedule in EAM.
 - b. This activity will be documented on a tag attached to the device and via the electronic document system.
3. Annually
 - a. All emergency eyewashes, drench hoses, and safety showers shall be inspected annually by FMD to assure conformance with ANSI Z358.1 requirements.
 - b. This activity will be documented on a tag attached to the device and via the electronic document system.

G. Lab Inspection Schedule

1. Weekly Checks
 - a. Weekly checks shall be made by personnel in their own respective areas without the assistance of FMD.
2. Quarterly Checks
 - a. FMD is responsible for carrying out quarterly inspections for those lab eyewash/drench hose units that do not have proper drainage (no plumbed drain, sink, or collection bucket). Users must arrange for a quarterly inspection by FMD, who will actuate the device to flush and verify proper operation.
3. Annual Checks
 - a. FMD is responsible for conducting all annual checks.
 - b. Lab personnel are not responsible for conducting annual inspections on eyewash/drench hose/safety shower units.

H. Documentation

1. All inspections will be documented on 1) a tag attached to the device, and 2) a nearby check sheet or via an electronic system.
2. FMD will change out each unit's old documentation tag with a new one during the annual inspection.
3. There is no requirement to maintain old tags.

I. Training

1. Employees shall be made aware of this Program's contents and specific requirements by either an FMD safety representative or their manager.
2. Familiarization training will be conducted upon hire, or as-needed. This might include when new equipment is introduced into the workplace, procedures change, and/or the work area changes.

J. References

1. ANSI Z358.1

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2. Duke Safety Manual Supplement O: Emergency Eyewash and Shower Equipment

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