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### DOCUMENT REVISION LOG

**Document:**  Emergency Safety Shower & Eyewash Program

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<th>Rev. No.</th>
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Updated May 14, 2021
# ACRONYMS & DEFINITIONS

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<th>Term</th>
<th>Definition</th>
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<tr>
<td>Combination Unit</td>
<td>A unit combining a shower with an eyewash or eye/face wash or a drench hose, or both, into one common assembly</td>
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<tr>
<td>EHS</td>
<td>Environmental Health and Safety</td>
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<tr>
<td>Emergency Shower</td>
<td>A unit that enables the user to have water cascading over the entire body</td>
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<tr>
<td>Eye/Face Wash</td>
<td>A device used to irrigate and flush both the eyes and face</td>
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<td>Hand-Held Drench Hose</td>
<td>A flexible hose connected to a water supply and used to irrigate and flush eyes, face and body areas</td>
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<tr>
<td>Stay-Open Valve</td>
<td>A valve that must be closed manually</td>
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1. Scope

This program outlines the eye/face wash and shower equipment requirements for the rinsing of employees exposed to injurious materials. Each department shall provide eye/face wash and safety shower equipment within the work area where employees and/or students may be exposed to injurious corrosive materials or other dangerous chemicals. Emergency eyewash, eye/face wash and safety shower units are not a substitute for proper primary protective devices. Personal Protective Equipment (eye and face protection and protective clothing) should be worn to protect the user from flying particles and splashing liquids.

2. Responsibilities

2.1. Environmental Health & Safety is responsible for:
- Preparing, reviewing and periodically revising this program.
- Monitoring compliance with this program.
- Provide consultation on placement of emergency showers and eye wash stations.

2.2. Deans, Directors, and Department Heads are responsible for:
- Providing emergency safety shower and eyewash or eye/face wash equipment within the work area where employees and/or students may be exposed to injurious corrosive materials or other dangerous chemicals.
- Ensuring departmental compliance with all the procedures outlined in this program.

2.3. Facilities Management is responsible for:
- Testing and repair of emergency safety shower, eyewash and eye/face wash equipment.
- Tracking flushing of safety showers and eye washes through TMA work orders as part of the water safety program.

2.4. Supervisors and PIs are responsible for:
- Weekly flushing of safety shower, eyewash and eye/face wash equipment.
- HSC: In addition to weekly flushing, monthly testing of safety shower, eyewash and eye/face wash equipment.

3. Equipment Performance

3.1. Emergency Safety Showers
- Emergency shower heads must be located between 82 inches and 96 inches from the surface on which the user stands.
3.3. **Hand-Held Drench Hose**

- Hand-held drench hoses must be capable of delivering 3.0 gallons of flushing fluid per minute for 15 minutes.
- Hand-held drench hoses must provide a controlled flow of flushing fluid to both eyes simultaneously at a velocity that will not be injurious to the user.
- Discharge nozzles must be protected from airborne contaminants. Whatever means is used to provide this protection must not require a separate motion, by the user, to remove it when activating the unit.
- Control valves must be of the Stay-Open type.
- Hand-held drench hoses should not be used as a substitute for an eyewash unit unless it meets the performance indicators listed in the above section and it is not feasible to install an eyewash unit.

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4. INSTALLATION

Emergency showers must be located such that they are accessible, require no more than ten (10) seconds to reach, and are within 55 feet of the potential hazard. This functionally means each lab should be equipped with a safety shower. In spaces where the laboratory showers are not located within the lab, there must be an unobstructed and clear path that the user can follow without the use of vision.

Eyewash units (including eye/face wash and hand-held drench hoses) must be located such that they are accessible, require no more than ten (10) seconds to reach, and are within 55 feet of the potential hazard (10 feet where strong corrosives are the hazard). **NOTE: Remember the injured worker may have to locate the unit while blinded by a contaminant.**

Emergency eyewash and showers must be kept accessible. Items (furniture, equipment, materials) shall not be stored or placed in such a manner that would block access to them.

5. TESTING PROCEDURES

Facilities Management Department tests equipment on the following schedule:

5.1. **Emergency showers are tested at least monthly in accordance with the following:**

- Verify adequate flow from the unit.
- Verify that the control valve is of the stay-open type and is operating properly.
- Operate for a period of time (2-3 minutes) sufficient to flush any stale water from the supply lines.
- If equipped, remove the floor plug to make sure it is functioning properly; replace plug after test.
- Record the inspection on the attached tag.

5.2. **Eyewash units are tested at least monthly in accordance with the following:**

- Verify flow from the unit.
- Verify that the control valve is of the stay-open type and is operating properly.
- Verify that the flushing streams rise to equal heights and that the fluid will wash both eyes simultaneously.
- Operate for a period of time (2-3 minutes) sufficient to flush any stale fluid from the supply lines.
- Record the inspection on the attached tag.

5.3. **Hand-held drench hose units are tested at least monthly in accordance with the following:**

- Verify flow from the unit.
- Verify that the control valve is of the stay-open type and is operating properly.
• Verify that the flushing streams rise to equal heights and will wash both eyes simultaneously.
• Operate for a period of time sufficient to flush any stale fluid from the supply lines.
• Verify that the hose is free to extend from the mounting bracket and is easy to maneuver.
• Record the inspection on the attached tag.

5.4. **Weekly Flushing**
Operate safety showers, eyewash and eye/face units weekly for a period of 2-3 minutes to flush any stale fluid and bacteria/viruses from the supply lines.

6. **Shower & Eye/Face Wash Use**
Immediate and proper use of emergency eye/face wash and safety showers is essential to minimizing injury. The following procedures should aid in minimizing injury due to contact with harmful materials:

• Go immediately! Do not waste a moment. Time is of the essence.
• For safety shower:
  1. Pull the handle to activate the shower.
  2. Immediately remove contaminated clothing. Do this while under the shower when gross contamination has occurred. Have someone assist with clothing removal when possible.
  3. If equipped, have the assistant remove the drain plug to allow water to drain.
  4. Flush exposed area for at least 15 minutes.
  5. Seek medical attention after flushing the exposed area.
  6. Notify your supervisor as soon as possible.
• For eye/face wash station:
  1. Activate the hands-free lever. If eyewash is of the hand-held type, have someone hold it for you, if possible.
  2. Get your eyes directly into the stream of water.
  3. If you have contacts, gently remove them while flushing.
  4. Hold your eyes open with your fingers.
  5. Gently roll your eyes to ensure complete flushing.
  6. Flush for at least 15 minutes.
  7. Seek medical attention after flushing.
  8. Notify your supervisor as soon as possible.
7. TRAINING

Supervisors shall train all persons that might be exposed to potentially injurious materials on the location and proper operation of eyewash, eye/face wash and safety shower units. Training is available on Learning Central. Contact Environmental Health & Safety (505-277-2753) for course materials or other assistance with this training.