

# **Safety Showers and Eyewashes**

**MSC-PRAC-30480**

**Revision 0**

**Effective Date: January 8, 2010**

**Topic: Safety and Health**

## Safety Showers and Eyewashes

<b>PURPOSE</b>	This practice identifies a key aspect of the Safety and Health (S&H) program and establishes requirements for location, testing, and maintenance of safety showers and eyewashes.
<b>SCOPE</b>	<p>This practice includes the following sections:</p> <ul style="list-style-type: none"><li>General Requirements</li><li>Preparation</li><li>Working Near Hazardous Chemicals</li><li>Inspection and Testing</li></ul> <p>The requirements of this practice are consistent with the requirements published in the Hanford Mission Support Contract (MSC) Safety and Health virtual manual.</p>
<b>APPLICATION</b>	This practice applies to Mission Support Alliance (MSA) construction personnel.
<b>GENERAL REQUIREMENTS</b>	<p>Records generated during the performance of this activity are to be included in the Construction Work Package and will be managed in accordance with <a href="#">MSC-PRAC-30374</a>, <i>Construction Work Package</i> and <a href="#">MSC-PRAC-30376</a>, <i>Construction Document Control</i>.</p> <p>For installations of plumbed emergency eyewash and shower equipment, or in the provision of portable units, the design specifications of ANSI Z358.1 shall be followed.</p> <p>Eye wash equipment must meet the minimum specifications of ANSI Z358.1; however, the key highlights of the minimum requirements are: A means shall be provided to ensure that a controlled flow of flushing fluid is provided to both eyes simultaneously. Nozzles shall be protected from airborne contaminants. Once activated it can be used without requiring the use of the employee's hands. Be capable of delivering flushing fluid to the eyes not less than .4gpm for 15 minutes.</p> <p>Shower equipment must meet the minimum specifications of ANSI Z358.1; however, the key highlights of the minimum requirements are: A means shall be provided to ensure that a controlled flow of flushing fluid is provided at a velocity low enough to be non-injurious to the user.</p>

## Safety Showers and Eyewashes

The equipment shall be capable of delivering flushing fluid at a minimum of 20 gpm for a minimum of 15 minutes. Stored flushing fluid shall be protected against airborne contaminants.

Water for eyewashes meets potable standards.

Do not use water substitutes such as neutralizing solutions, boric acid solution, or mineral oil in eye wash stations.

### PREPARATION

Before assigning personnel to work in areas where there is significant potential for hazardous materials to cause injury by splashing onto the skin or into the eyes, managers/supervisors ensure the following:

Equipment shall be installed or placed in well-lit, easily reachable locations to provide accessibility with **in 55 ft. (10 second travel time) of the operation that requires the eye wash.**

The equipment is always accessible, and the routes to the stations and the area around the stations are kept clear.

Shutoff valves that may be installed between the sanitary water supply and the eyewash or safety shower are on and cannot be inadvertently shut off (such as: Lock open the shutoff valves).

Existing drainage of showers and eyewashes will not be impeded.

### WORKING NEAR HAZARDOUS CHEMICALS

When working in an area where safety showers or eyewash apparatus are required, employees need to know the following:

How to use the equipment provided. They are trained to operate the apparatus.

The location of the nearest safety shower and eyewash apparatus.

The equipment has passed the required inspection/maintenance test.

### INSPECTION AND TESTING

This section gives the general process for verifying the operability of important safety equipment but does not account for facility-specific conditions (such as drainage, required radiological controls, or electricity).

Inspection and testing for shower and eyewash equipment should be addressed in pre-job briefings.

## Safety Showers and Eyewashes

Plumbed eyewash and shower equipment shall be activated weekly for a period long enough to verify operation and ensure that flushing fluid is available.

All eyewash and shower units shall be inspected/tested annually to assure conformance with ANSI358.1 requirements.

To check portable showers and eyewashes, follow the manufacturer's recommendations.

Document the inspection and test results for each shower system/eyewash unit. An inspection tag (such as the eyewash inspection tag, [A-6004-318](#)) is recommended.

### FORMS

[A-6004-318](#), (Tag) *Safety Showers – Eyewash Fountains*

### RECORDS IDENTIFICATION

#### Records Capture Table

<b>Name of Document</b>	<b>Submittal Responsibility</b>	<b>Retention Responsibility</b>
Construction Work Package	Construction Supervisor/Superintendent	Project Document Control

### REFERENCES

[MSC-PRAC-30374](#), *Construction Work Package*

[MSC-PRAC-30376](#), *Construction Document Control*

American National Standards Institute (ANSI)  
ANSI Z358.1, For Emergency Eyewash and Shower Equipment