

APPENDIX S - EMERGENCY EYEWASH AND SAFETY SHOWER INSTALLATION

1. Intent: Provide an effective method of flushing corrosive or irritating materials out of the eyes or off the body.

2. Governing Regulations: See Appendix L - Laboratories Where Hazardous Chemicals Are Present for a list of governing regulations and reference standards.

3. General Requirements

3.1. Locate eyewashes and safety showers in areas where the eyes or body may be exposed to corrosive chemicals such as laboratories, battery operations and corrosive dip tanks.

3.2. Locate eyewashes and safety showers so that the maximum distance from the hazard does not exceed 100 feet and so that they can be reached within 10 seconds. Occupants must not pass through a doorway or weave through equipment to reach the eyewash and safety shower.

3.3. Locate eyewashes and safety showers in the normal path of egress. For example, in a laboratory, the eyewash and safety shower shall be near a corridor door.

3.4. If it is feasible, water supplied to eyewashes and safety showers shall be tempered at 60 degrees F to 95 degrees F.

3.5. Use potable water to supply eyewashes and safety showers.

3.6. To provide consistency to building occupants, the activation device for the eyewash and safety shower must be uniform throughout the building.

4. Eyewash and Face Wash Performance Standard

4.1. Eyewashes shall provide a curtain of water over the entire facial area. Streams of water shall be simultaneously released from two sides to clean foreign particles or liquids from both the eyes and facial area. The discharge pressure of the stream must be less than 25 psi.

4.2. Eyewashes shall have a flow rate of at least three gallons per minute.

4.3. The eyewash control shall be the paddle type with dimensions approximately 4 inches by 4 inches. The control shall require no more than 10 ounces of force for activation. The valve shall remain activated until intentionally shut off.

4.4. The maximum distance from the floor to the eyewash jets shall be 36 inches.

4.5. Drain eyewash fixtures directly into the sanitary sewer in accordance with the Minnesota Plumbing Code.

5. Safety Shower Performance Standard

5.1. Safety showers shall be deluge types with a continuous flow valve. The valve shall remain activated until intentionally shut off.

5.2. Safety showers may be installed in combination with an eyewash fixture. The supply lines and connections of combination units shall not create obstructions for persons using the laboratory.

5.3. Provide a head discharge of at least 30 gallons per minute for safety showers.

5.4. The distance from the floor to the shower shall be 82 inches to 96 inches.

5.5. Wall cord, ring and chain, or pull bar, located no higher than 48 inches from the floor may activate the shower. To prevent accidental discharge, locate the activating device so that it is not in the way of normal occupant activity.

End of Appendix S - Emergency Eyewash and Safety Shower Installation
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