

### *Hazard Review*

- **Falls from the Man-Lift or from the Ladder**
- **Burns from Hot Light Bulbs**
- **Hot Light Bulbs Exploding from Contact w/Wet Cleaning Solution**
- **Chemical Solution/Dust Falling into Eyes While Cleaning.**
- **Electrical Shock**

### *Related Safe Work Practices*

- **Ladders**
- **Lifting and Body Mechanics**

### *Required Personal Protective Equipment*

- **Work gloves**
- **Safety glasses (if bulb is broken)**

### *Authority*

- **CCR Title 8 Section 3646 and 3648**

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## **CHANGING A LIGHT BULB**

Electricians usually change light bulbs. Occasionally, due to vandalism or other reasons, custodial workers are also called on to change light bulbs.

### **BEFORE**

1. **PUT ON PPE.** Put on work gloves if the bulb is hot or broken and you are handling the bulb by hand. If the bulb is broken, add safety glasses.
2. **SHUT OFF ELECTRICITY IF BULB IS BROKEN.** If the light bulb is broken, shut off the circuit breaker **before** handling the bulb.

### **DURING**

3. **IF POSSIBLE, USE A LONG-HANDLED LIGHT CHANGER.** If an incandescent light bulb is too high to reach easily, try using the long-handled light changer tool.

4. **IF USING A LADDER.** Use a wooden ladder when working on electric light fixtures, as wood will not conduct electricity. See “Ladders” for procedures on safe ladder use.

## **POOL AND GYM LIGHT FIXTURES (THOMPSON HANGAR SYSTEMS)<sup>1</sup>**

### **BEFORE**

1. **PUT ON PPE.** Put on work gloves. If the bulb is broken, add safety glasses.
2. **CLEAR THE AREA.** Ensure that the area is cleared of people who could be impacted by a falling light fixture. Use cones or tape if need be.
3. **WARM UP.** Getting the light fixtures down takes a good deal of strength. Be sure that you have warmed up your body sufficiently. Walk around or perform some light, easy activities for about five minutes. Light stretching can be done after you have warmed up your muscles (see *Lifting and Body Mechanics* for some specific stretches.)

### **DURING**

1. **RELEASE THE LIGHT FIXTURE GENTLY.** While releasing the fixture using the chain requires some tugging and pulling, do so gently to start. Increase the force you need to do this slowly.
2. **IF USING A LADDER.** Use a wooden ladder when working on electric light fixtures, as wood will not conduct electricity. See “Ladders” for procedures on safe ladder use.
3. Have a Genie Lift onsite and use whenever possible.

### **AFTER**

1. **REPORT ANY DAMAGE TO THE LIGHT SYSTEM.** If the light hanging system is damaged, report to you supervisor and have the system fixed prior to using it again.

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<sup>1</sup> Onsite discussion between EHS and Bill Gunn, Electrical Supervisor on 12/15/05; see Injury Case 2975

## CLEANING LIGHT FIXTURES

### BEFORE

1. ASSEMBLE CLEANING SUPPLIES AND TOOLS. Supplies necessary for the job include:
  - Soil-Solv all-purpose cleaning solution
  - Sponge
  - Extension tool
  - Neoprene gloves
  - Goggles
  - Protective facewear (as needed to protect face from irritating cleansers)
  - Disposable clothing (as needed)
  - Ladder or man-lift
2. PUT ON PPE. Undiluted Soil-Solv is corrosive and can cause burns.
3. REVIEW MSDS. Review and understand the MSDS for the cleaning solution.
4. DILUTE CHEMICAL. Dilute chemical per instructions.
5. TURN OFF ELECTRICITY. Turn off electricity before cleaning light fixtures.

### DURING

1. USE THE MAN-LIFT WHEN POSSIBLE. Using a man-lift is preferable to using a ladder since the work platform is more stable. However, only employees trained in the safe use of man-lifts may use them. Proceed as follows:
  - a) Inspect man-lifts for damage and defective parts before use. Take damaged or weakened man-lifts out of service until repaired.
  - b) Do NOT place ladders or other objects atop the man-lift in an attempt to gain greater height.
  - c) Do NOT sit or climb on the edge of the basket to gain greater height.
  - d) Employees, tools, materials, or equipment are NOT allowed on a traveling elevated platform.
  - e) Clean mud or grease from your shoes before boarding a man-lift.
  - f) Mark the work area with warnings such as flags or cones.
  - g) In case of power outage, press the “dead-man switch” (red handle) at the base of lift (near motor) to bring the lift back down.
2. IF USING A LADDER. Use a wooden ladder which will not conduct electricity. See “Ladders” for procedures on safe ladder use.
3. CLEAN FIXTURE.

- a) Clean **ONLY** the glass or plastic light fixture casing with a sponge dampened with cleaning solution. Clean with clean rinse water if specified by cleaning solution instructions.
- b) Do **NOT** touch hot fluorescent tubes or light bulbs with cool cleaning solution or water, as this may cause the bulb to explode.
- c) **DO** wear protective eyewear to protect your eyes against falling dust and chemical splashes.