

## Management of Waste Fluorescent Lamps

Fluorescent lamps provide energy efficient lighting, resulting in a reduction in electricity consumption. All fluorescent lamps contain mercury, a human poison. Therefore, it is important that spent lamps be recycled or managed in a way that prevents release of mercury and exposure to people.

### Management Options for Waste Fluorescent Lamps

#### Low-mercury (green tip) lamps

Fortunately, fluorescent lamp manufacturers have begun producing low-mercury lamps and DEQ encourages use of these lamps when possible. Due to the presence of mercury, low-mercury lamps should be recycled; however, they are safe for disposal with normal office trash.

More information concerning recycling options and local recycling companies can be found at [www.lamprecycle.org](http://www.lamprecycle.org).

#### High-mercury lamps

##### A. Universal waste management

A generator of waste fluorescent, high-mercury lamps who wishes to manage those lamps in accordance with the universal waste requirements, rather than the hazardous waste requirements, must follow some very simple procedures:

- Store unbroken waste lamps in closed, structurally sound packages marked with Universal Waste Lamps, Waste Lamps, or Used Lamps.
- Maintain documentation showing the waste fluorescent lamps have not been stored for longer than one year. For example, marking the date on which waste lamps were first placed into storage or any other method that clearly demonstrates the length of time the lamps have been stored.
- Train employees in proper handling and emergency procedures.
- Clean up broken lamps.
- Ensure lamps are delivered to a facility that can recycle them, or to another facility authorized to receive the lamps.

If more than 5,000 kg of universal wastes are accumulated in one calendar year, the business must notify DEQ to receive an EPA Identification Number. Universal wastes include lamps, mercury-containing thermostats, aerosol cans, pesticide residues, and batteries. Tracking records of shipments of waste lamps must be kept for three years.



##### B. Hazardous or non-hazardous waste management

If waste lamps are not managed in accordance with the universal waste requirements, then the generator of the lamps must determine if the lamps are hazardous. If the lamps test below the regulatory limit of 0.2 mg/l for mercury and 5.0 mg/l for lead using the Toxicity Characteristic Leaching Procedure, or the generator has other information demonstrating the lamps are non-hazardous, such as a Safety Data Sheet from the manufacturer, then they can be disposed with normal office trash.

If the lamps are determined to be hazardous (TCLP  $\geq$  0.2 mg/l mercury or 5.0 mg/l lead), then the generator of the lamps is subject to applicable hazardous waste requirements of 40 CFR Parts 261 – 268, such as manifesting, recordkeeping, labeling, packaging, and disposal at a permitted hazardous waste disposal facility, unless the lamps are managed in accordance with the universal waste requirements.