

## Management of Waste Fluorescent Lamps

Fluorescent lamps provide energy efficient lighting, resulting in a reduction in electricity consumption. All fluorescent lamps contain mercury, a toxic element. 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 lamps

Fluorescent lamp manufacturers now produce low-mercury lamps and DEQ encourages use of these lamps when possible. All fluorescent bulbs should be recycled. Documented low-mercury lamps may legally be disposed 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 lamps who wishes to manage those lamps in accordance with the reduced Universal Waste requirements must follow some very simple requirements:

- Store unbroken waste lamps in closed, structurally sound packages marked with the words Universal Waste Lamps, Waste Lamps, or Used Lamps.
- Maintain documentation, by either 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, showing that the waste fluorescent lamps have not been stored for longer than one year.
- 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, 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 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.