

WASTEservices at Kaizen

The WASTEservices Division– Part 4, Destruction Services

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As discussed in previous issues of Volume 3, Issues 1-3, operations at the **WASTEservices** Facility are divided into three areas of operation: Recycling and Remediation, Chemical Blending and Destruction Services. In this issue we will discuss Destruction Services which include, but is not limited to the following:

- Incineration Operations (Solid/ Liquids)
- Drum/ Container Cleaning, Destruction & Disposal
- Fluorescent Bulb Disposal
- Lab Waste Disposal
- Medical Waste Disposal (Sharps, bandages)
- Pharmaceuticals
- Confidential Document Disposal / Expired Products/ Insurance etc.

Incineration Operations

Incineration is a waste treatment technology that involves the combustion of organic materials and/or substances. Incineration and other high temperature waste treatment systems are described as "thermal treatment". Incineration of waste materials converts the waste into ash, flue gases, particulates, and heat.

Liquid Incinerator & Solid Incinerator

Kaizen has been operating two (2) waste disposal incinerators for the last eight (8) years. These incinerators allow the **WASTEservices** Division to destroy any waste material that otherwise could not be remediated, recycled or chemically blended.

Liquid Incinerator

Waste Types

- Methanol
 - Formaldehyde
 - Oil
 - Grease
 - Various Hydrocarbon based chemicals and solvents
- Capacity – 4000 litres/day (Depending on waste type)

Solid Incinerator

Waste Types

- Contaminated Water
 - Soil (clay)
 - Polypropylene
 - Wood
 - Paper
 - Plastic (except PVC)
 - Filters
- Capacity – 800 kg/ day max. (Depending on waste type)



Drum / Container, Cleaning, Destruction and Disposal

Empty steel drums reduce space and resources, but companies can't just throw them out. Empty drums must be disposed of in compliance with environmental regulations. Even metal scrap companies will not accept drums unless they have been properly re-conditioned.

KAIZEN WASTEservices takes the worry and hassle out of drum disposal. We pick up empty drums and appropriately clean them. The drums are then crushed for recycling. Our total drum disposal service gives customers a low-cost, trouble-free method of meeting disposal laws and peace of mind that the job will be done right the first time every time.



Hydraulic Drum Crusher—HDC—900

- 38,000 pounds of crushing power.
- Protective plastic cover on power unit.
- 15 gallon oil reservoir.
- Meets OSHA and JIC standards.

Fluorescent Bulb Disposal

Fluorescent lights are more energy efficient and have a longer use life than incandescent lights. There are, however, some health and environmental issues associated with the use and disposal of fluorescent light bulbs. Fortunately, recycling of fluorescent bulbs significantly reduces these problems. Fluorescent light bulbs contain mercury. The standard fluorescent lamp contains approximately 20 milligrams of mercury. While there are no known health hazards from exposure to lamps that are intact, improper disposal of fluorescent lamps can contaminate the environment.

Mercury is toxic to the human nervous system. Chronic breathing of mercury vapors can cause a range of physical symptoms, including inability to coordinate body movement and impairment of hearing, speech and vision. Exposure to mercury in other forms can lead to skin rashes and kidney damage.

Fluorescent Bulb Processor

- System exceeds both OSHA and ACGIH standards for mercury vapor exposure.
- Eliminate storage hassles - Reduce your needed storage space for lamps by crushing over 1350 T8 4' lamps per 55-gallon drum .
- Safer work environment .



Did You Know!!

FLUORESCENT LAMP DISPOSAL:

- Removes potentially dangerous bulbs from the workplace
- Reduces the possibility of injury from improper material handling
- Allows for proper hazardous waste disposal of mercury, phosphor, metal and glass components
- Provides for efficient reduction, storage and disposal in one environmentally sound unit
- Reduces storage needs and eliminates fire hazards
- Encourages consistent handling and treatment of potentially hazardous waste

Medical Waste Disposal

Medical waste, also known as **clinical waste**, normally refers to waste products that cannot be considered general waste, produced from healthcare premises, such as hospitals.

Disposal of this waste is an environmental concern, as many medical wastes are classified as *infectious* or *biohazardous* and can lead to the spread of infectious disease. Examples of infectious waste include potentially contaminated "sharps" such as needles and scalpels etc. Infectious waste is often incinerated, and is usually sterilized if it is to be placed in a landfill. Additionally, medical premises produce a variety of waste hazardous chemicals, including radioactive materials. While such wastes are normally not infectious, they may be classified as hazardous wastes, and require proper disposal.



Pharmaceutical Disposal

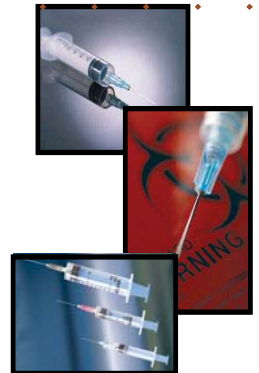


It is important for health care professionals to ensure that best management practices are undertaken and updated in this critical area.

All health care sites must review current policies and procedures to assure compliance with environmental regulations. Therefore, a management plan of action associated with pharmaceutical waste disposal has become an essential process to comply with current laws.

Did You Know!!!

- "Sharps" include syringes with attached needles and disposable lancets;
- One out of every 20 people have diabetes and use an average of 2 sharps daily;
- Improperly discarded sharps can injure family members, waste and recycling workers, or end up places where they are a danger to the public, such as beaches;
- Sharps are a hazard because they can be contaminated with Hepatitis, HIV (which may lead to AIDS), tetanus and other potentially fatal diseases?



Confident Document Disposal



With increased awareness regarding privacy issues, businesses and consumers are becoming much more wary of disclosing and securing personal or sensitive information. It is becoming extremely important to safeguard and properly dispose of confidential documents.

Shredding redundant documents and records ensures that sensitive corporate information is prevented from falling into the hands of a competitor, disgruntled employee or persons with malicious intent that may cause your company financial or public embarrassment.

At **KAIZEN** we aim to maintain a high level of security and professionalism.

We Provide...

- Dedicated security shredding location
- No third party involvement at any stage
- Secure, specialized collection service. Disposal process can be viewed by client.
- Regular rostered pick-ups or at call service.
- Pick up from your office or designated areas. No need to leave material in unsecured areas or loading docks.
- No need for your staff to sort or separate paper clips and binders
- Certificate of destruction

Eight Resolutions to Take to Work in 2008!!!

One of the most popular obsessions this time of the year is making New Year's resolutions. Seldom do we, as business people, make resolutions about our workplaces. And even if we do, it's unlikely we would consider the environment. So in the seasonal spirit of giving, here are some resolutions that can help move us toward a more sustainable future for our children and grandchildren, and more often than not, improve the bottom line.

- **Spend some time looking inward:** Have you given much thought recently to how your company impacts the environment? Understanding how everything you do contributes to your company's environmental "footprint" helps you learn where to focus attention and how to set goals.
- **Spend even more time looking outward:** Find out what your customers really want. "Greener" products can offer consumer benefits by creating fewer emissions, using less toxic ingredients, or being minimally packaged.
- **Set clear goals, and communicate these goals to your employees:** Every company needs a clear statement of what it is trying to achieve in the area of the environment. Create a structure for measuring your progress. Then set specific actions: Measure everything--your baseline, your progress. Then set specific targets for improvement.
- **Partner with others:** Bring in some environmental experts to hear their perspective. An external set of eyes looking at your business can help to expand and suggest new solutions. and freshen your own perspective
- **Use your position with vendors to leverage your purchasing:** Let your vendors know that you expect environmental pro-activity and innovation from them, or set specific challenges for vendors.
- **Put your best people on the case:** Don't isolate the environmental staff - make this department a stop on the corporate rising stars. For smaller companies, look for creative environmental thinkers throughout your staff.
- **Practice good housekeeping:** Have a corporate-wide recycling program in place, use low-solvent interior paints, practice double-sided printing and copying, use the energy-saver features on your computers and office equipment, invest in energy efficient lighting, and buy recycled paper and other recycled materials.
- **Take action now:** Don't wait until the next millennium. Unlike the resolution to lose weight, the above resolutions can't be ignored. There is nothing more essential than clean air to breathe, clean water to drink and a healthy environment for our children to grow up in. By following these resolutions, business leaders will make sure that 2008 is a winning year -- for their bottom line and the environment (<http://environmentaldefense.org>)



Happy New Year From the Management & Staff of



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