

Brookhaven National Laboratory/ Photon Sciences Directorate			
Subject:	Hazardous Waste Management		
Number:	LS-ESH-PRM-7.0.0	Revision:	10
		Effective:	4/15/2011
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*Approval signatures on file with master copy.

All Photon Sciences Directorate Staff, Users, Plant Engineering personnel, personnel from other BNL departments, and sub-contractors working within the Photon Sciences complex are required to follow the requirements set forth in the BNL Subject Area, [Hazardous Waste Management](#). There are some additional elements to consider in the Hazardous Waste Management program discussed below.

- **90 Day Storage Areas:** The Building 725 90-Day Hazardous Waste Collection Area is located in a small building outside the west roll-up door (see [map](#)). In Building 703, the 90 day area is located in the hallway between the tech areas and labs. Check with [Photon Science Directorate Safety Staff](#) in regards to Building 740's 90 day area(s). Wastes must be brought to the appropriate area, labeled, separated and properly documented before they are picked up by the BNL Hazardous Waste Management Group. Labels and waste control forms are kept in the 90-Day Hazardous Waste Collection Areas and may also be obtained from the [90-Day Hazardous Waste Collection Area Manager\(s\)](#).
- **Satellite Accumulation Areas:** Hazardous waste is collected at the point of generation in Satellite Accumulation Areas (SAA). Current locations and contact names for the Directorate's SAAs are [listed here](#). Contact a member of the [Photon Science Directorate Safety Staff](#) regarding changes, modifications or creating a SAA.
- **Degreasers:** Use of degreasing products other than LPS degreaser, AC-500 and Zep-Pride E must be assessed by the [Photon Sciences Directorate Environmental Compliance Representative \(ECR\)](#) to determine whether they contain chemicals that will cause a waste management concern.
- **Empty Aerosol Cans:** The Building 725 Empty Aerosol Can recycling container is located by the 725 Stockroom. It is a white container lined with a plastic bag and labeled with the words "Empty Aerosol Cans". When this container becomes full, Photon Sciences Directorate Safety Staff will collect the contents of the plastic bag, puncture the non-hazardous cans using the can popper and recycle the empty cans as scrap metal. Please keep in mind that only empty aerosol cans can be collected for recycling. A spray can is considered "empty" when it is at atmospheric pressure and can no longer discharge any product. Waste aerosol cans that are still under pressure, that have any product remaining in it, or once held acutely hazardous chemicals or pesticides must be disposed of as hazardous waste. Use the yellow drum that is located next to the recycling container for aerosol cans that are considered hazardous waste. Make sure that you log what was placed in the drum on the posted inventory sheet. A similar aerosol can collection area will be located in Building 740. Inquire with [Photon Science Directorate Safety Staff](#) for more detail.

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- **Piranha Etching Solutions:** Refer to the guidelines set forth in the [SBMS Chemical Hygiene Plan](#) when working with any piranha solutions. For disposal contact the [Photon Sciences Directorate ECR](#) or [90-Day Hazardous Waste Collection Area Manager](#) who will explore neutralization, dilution, and other options.

- **Universal Wastes:** There are several disposal buckets for different types of hazardous waste batteries in the Building 725 90-Day Hazardous Waste Collection area.

- **Industrial Wastes:** The following are examples of industrial wastes produced at the Photon Sciences Directorate:
 - LPS degreaser is a non-hazardous waste and must be collected in the appropriate 55 gallon drum that is located in the vacuum lab Room C14B in the basement of bldg. 535C.
 - Vacuum pump oil is a non-hazardous waste and must be collected in the appropriate 55 gallon drum such as the drum between the West roll-up doors in Building 725.
 - Oily rags generated at the Photon Sciences Directorate must be disposed of through BNL Hazardous Waste Management. This includes all rags soaked with environmentally friendly or biodegradable cooling fluids such as Blasocut. Appropriate oily waste receptacles are available from most safety equipment supply companies. If you generate oily rags please purchase a receptacle for your area and start collecting all oily rags. When the container is full, the rags should be double bagged in clear plastic bags and disposed of as industrial waste.

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PHOTON SCIENCES DIRECTORATE REVISION LOG		
Document Number:	LS-ESH-PRM-7.0.0	Review Frequency
Subject:	Hazardous Waste Management	3 Years
Review signatures on file with master copy of controlled document		
Rev	Description	Date
1	Initial release of document	5/15/2000
2	Procedure additions and corrections: 1. Added the industrial waste/oils section 2. Added the degreaser section 3. Reworded multiple paragraphs	12/13/2000
3	Added Sat. Acc. Area Rules sign link to procedure	07/06/2001
4	Added Sat. Acc. Area Rules sign link to procedure	07/24/2001
5	Updated web links & minor text improvements	11/30/2001
6	Updated web links & minor text improvements	06/15/2004
7	Updated web links. Changed staff's job titles to reflect recent organizational changes. Deleted obsolete information and made minor text improvements.	06/11/2007
8	Changed 90 day area manager and contact information. Added puncturing and recycling of aerosol cans information to the Empty Aerosol Cans section.	01/15/2008
9	Changed 90 day area manager and contact information. Updated approvals to reflect personnel changes.	03/17/10
10	Updated to Photon Sciences Directorate. Deleted information already detailed in SBMS.	04/15/2011