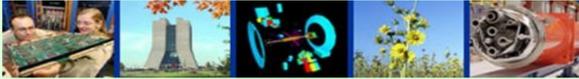


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# PPD ES&H Newsletter

August 2010

## Do the Right Thing

Every day we are presented with tasks and challenges here at Fermilab. Every day these tasks and challenges may present hazards that we need to mitigate in a manner that is safe and productive. We run into problems and concerns when personnel take short cuts. You hear statements such as "I just wanted to get the job done" or "it was only going to take 30 seconds." Take the time to do the job safely and correctly—do the right thing. If you are drilling a hole above your shoulder level, get a ladder for the job.

There recently was an incident where a similar scenario played out: The gentlemen completing the task needed a ladder, but no ladder was located. They took a garbage can, turned it over, and drilled the hole. The garbage can is not a safe work platform, and to make matters worse, the garbage can put the worker over the height of a guard rail, which requires fall protection. This could have had serious consequences had something gone wrong. So when you are out there in the field and you need the right tool, do the right thing and get the tool you need.

## Lockout/Tagout Basics

### What is Lockout/Tagout (LOTO)?

Lockout/Tagout is a safety program that requires employees performing work on machines that could inadvertently be restarted or brought back into service while the employee is performing service. The employee needs to isolate the energy (electrical, hydraulics, pneumatics, pressurized gases, etc.) and lock out the machine or equipment.

The tag is utilized to warn others that work is being conducted, and to not restart the machine without the contacting the individual(s) on the tag(s). (There are times when a group of people will be working on a machine or piece of equipment, and therefore, they must perform a group LOTO, to ensure that each individual will be safe during the process. Details on group LOTO is described in FESHM chapter 5120.



To remove someone else's lock and/or tag is grounds for disciplinary action, as you are risking causing injury or death to another person.

### Who should use LOTO?

Only "authorized" individuals can use lockout/tagout. That would be employees/contractors who have been trained in LOTO Level 2 and need to service a machine or piece of equipment. They are qualified based on their training and experience.

If you are going to be performing work on or near equipment that could injure you if reenergized, you are responsible for ensuring the equipment is properly locked out with your lock and tag so no one can inadvertently restart equipment that could injure you.

## Near Misses

A near miss (a.k.a. near hit) is an incident without injury, but could have resulted in injury or damage to the environment. Near misses must be reported to your supervisor. When a hazard is recognized that could result in an injury or damage, we must address this immediately to prevent a similar occurrence in the future.

This will not only help you and others working in the area from avoiding injury, it will also help the lab improve their processes.

When reporting your incident, please notify the supervisor if there was any corrective action taken, and if so, what was done. For other safety concerns, you may submit them electronically via the [online reporting system](#).

## Laser Pointer Safety Alert

Recently at another laboratory an individual purchased a green hand-held laser pointer. After arrival, and after some use, it was realized that the laser advertised a power rating of 30 mW (which far exceeds the FDA regulatory limit of 5 mW for pointing devices), it was taken out of service (further tested at the lab found that the laser actually had a power rating of 100 mW).

Green lasers are gaining appeal on the market, as they are becoming less expensive, and provide a brighter beam. Unfortunately, the human eye is more sensitive to green light, and can incur more damage from this light source. The FDA places a 5 mW limit on products promoted for use as pointing and demonstration devices (at 5 mW, if a laser is aimed directly at the eye, it won't cause instantaneous damage as long as you blink or look away).

When using a laser pointer, consider the following:

- Purchase and use pointers that are labeled as Class 2 or 3 A only
- Purchase and use pointers that have a beam-blocking filter in place, to eliminate excess infrared light
- Do not use a laser pointer that is missing its label (the label will include the laser hazard symbol, laser classification, laser wavelength and maximum power output)
- Never stare into the laser beam
- Never aim the beam at yourself or another person
- Do not aim the beam at mirror-like surfaces



Please read this article from the FDA: "[Illuminating the Hazards of Powerful Laser Products](#)" for more information.

## Compact Fluorescent Light Bulbs (CFL) Disposal/Recycling

CFL bulbs use less electricity than traditional light bulbs, which reduces the demand for electricity. CFLs do contain small amounts of mercury, an essential ingredient for CFL bulbs to produce light. While the amount of mercury inside a CFL's glass tubing is only about 4 milligrams—roughly the amount that would cover the tip of a ballpoint pen—it is still essential to handle and recycle CFLs responsibly.

To recycle your CFL bulbs, bring your used CFLs to any participating Ace Hardware, True Value or Home Depot store [near you](#).

If you should break a CFL, EnergyStar offers [these tips](#) in cleaning up the bulb.

## FESHM Chapter Updates

### FESHM 9030: Aviation Safety Policy—Approved and Posted

Changes made to the document are as follows:

- 1) The Definitions section was moved to the end of the chapter.
- 2) Main and subparagraphs were numbered down to three levels for ease of reference during audits and assessments.
- 3) Links were provided for forms and manuals referenced in the chapter.
- 4) The Notifications Table was updated with new names and phone numbers.
- 5) The Aviation Subcontractor Certification letter form required from the CAS provider was rendered obsolete. The DOE spreadsheet from the Office of Aviation Management provides users with names of CAS providers screened and approved by DOE Headquarters.
- 6) The Fermilab Association of Rocketry no longer exists. All references to the FAR were deleted.
- 7) The Reports requirement is clarified regarding the calendar used. A deadline for turning the report to the Fermilab directorate was also entered.
- 8) The flow diagram is updated.

This chapter can be found here <https://esh-docdb.fnal.gov:440/cqi-bin/ShowDocument?docid=1172>

### Out for Lab-Wide Review:

#### FESHM Chapter 8040.2 – Pesticides—Proposed Modification:

The purpose of this proposed modification is to put into place a policy statement on integrated pest management (IPM) to fulfill one of the requirements of EO13514.

#### FESHM Chapter 5062.1 – Lasers—Proposed Modifications:

This chapter has been revised as follows:

- Explained why we need to follow ANSI Z136.1-2000.
- Described the Laser Safety Committee.
- Added requirements for unattended laser operation (ANSI requirement)
- Added external light requirement for class 4 laser rooms (ANSI requirement)
- Added detail to eyewear selection (short pulses, VLT).
- Offered suggestions to deal with multiple lasers in one room.
- Added "be careful when opening door to laser room" statement.
- Described new laser hazard classification system.

Comments for these two chapters can be posted [here](#).

## Nicor Gas—Energy Efficiency Program

If you are in the market for a new energy-efficient water heater, furnace or boiler; you may be eligible for a rebate from Nicor Gas. Click [here](#) to learn more.

## PPD July Injuries

No injuries to report!

## July Winners!!!



### July Contest #1: Winner of the Mini MagLite:



*Brendan Casey*

Winning Caption:

**I know the safety switch for this thing is around here somewhere...**

#### Caption contest runners-up:

- \* With the rest of the crew gone, I can finally finish my 'Fargo' fan film.
- \* I sure hope someone locked out the "on" switch!
- \* Good news-bad news!!! The good news is I found Mrs. Smith's cat. The bad news is I need tweezers to get the parts out of the chipper.
- \* Fred ...Fred...Are you in here???
- \* Man I need a 20 minute power nap.
- \* Hey Bob...I can't see in here....can you hit the light switch?
- \* World's fastest crew cut contest winner (R.I.P)
- \* A little off the top, please!
- \* I need some fiber in my diet!
- \* It's a damned hard way to trim my finger nails....and a bit on the noisy side.
- \* Did I leave my lotto ticket in here?
- \* I'll take a nap while you give me a 'lift'.

### July Contest #2: Winner of the ES&H Coffee Mug:

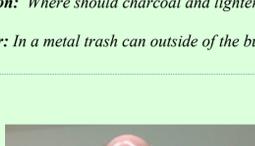


*Harvey Bruch*

**Question:** Where should charcoal and lighter fluid be stored?

**Answer:** In a metal trash can outside of the building.

### July Contest #3: Winners of the Mechanic's Gloves:



*Albert Dyer*



*Don Friend*



*Jerry Zimmerman*

**Question:** How do you "take safety home?" Tell us what safe behaviors you picked up at work, that you now use at home.

- \* *Albert took home the fire alarm tests, and performs his own smoke alarm tests each month. He also keeps a fire extinguisher by the stove; stores his flammables in a cool and well-ventilated area; and doesn't leave fans on when he's not at home.*
- \* *Don took home the use of safety glasses. He keeps a pair or two in the garage, and another pair on his work bench.*
- \* *Jerry also took home the use of personal protective equipment, and wears safety shoes when mowing the lawn.*

**Well done guys!**

## August Contest #1—Captions

For a chance to win either a pair of NASCAR safety glasses or a pair of women's style safety glasses:

Provide a *humorous* caption for the following picture:



## August Contest #2

Provide a response to the following query, and you could win a PPD ES&H coffee mug:

Name two types of hazardous energy that may need to be locked out in order to work on equipment.



Please submit your responses/answers to [Angela Sands](#) by August 27<sup>th</sup>.  
(If there are multiple correct answers/entries, a drawing is held.)