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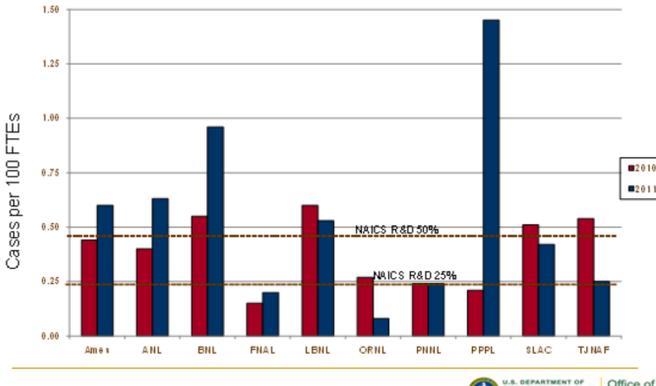
PPD's News to Live By

ES&H Newsletter
September 2011

FNAL's DART Case Rate

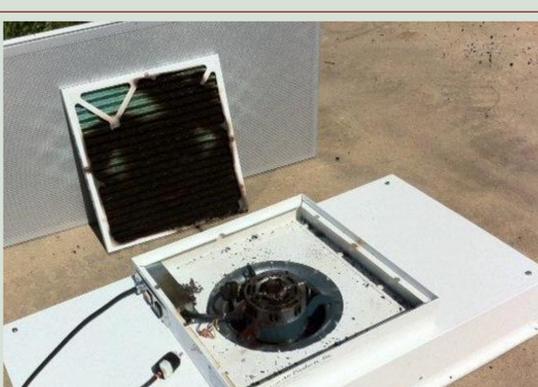
In comparison with the other labs, FNAL's DART rate looks pretty good (the DART rate is the incidence rate for recordable injury and illness cases involving days away from work, restricted work activity, and/or job transfer). While we don't want to focus on the numbers, it is nice to see where we stand. We still have had 4 employee DART cases this Fiscal Year, and our ultimate goal will always be no injuries. Thank you to everyone for your safe work!

DART Case Rate FY 2010 and FY 2011 YTD



Lab C Cleanroom Hood Fire

Last month, a fire started in a cleanroom hood. It is believed to have started when the motor shorted out, causing the paper filter to catch on fire. The alarm did sound, and emergency warden, Donna Kubik, started evacuating employees. While passing through Lab C, she noticed the fire in the hood, and alerted Bert Gonzalez. Bert unplugged the unit and placed a steel sheet over the filter, which helped extinguish the fire.



Thanks to their quick actions, the fire was short-lived and caused minimal damage.

Dewar Transport Cart Hazard

In August, a Fermilab employee's fingertip was amputated when a dewar he was moving on a cart fell off the lifting pin. The employee did have one hand on the dewar's ring and the other hand on the cart. When the dewar fell, there was no time to move his hand, and his finger was caught between the ring and a steel support member of the cart. Within the past year, there have been 3 similar hand injuries at other DOE labs.

Two similar incidents occurred at Argonne, where employees sustained crush injuries to their fingers. At Los Alamos National Lab, the employee lost two fingertips.

Following the below recommendations for use of Dewar hand carts should help reduce the likelihood of injury:

1. Wear gloves when handling Dewars and using carts.
2. Before using a cart, inspect it to make sure all locking mechanisms are moving freely and locking properly.
3. Before moving a loaded cart, make sure all locking mechanisms are engaged, and lifting pin has been adjusted so as the dewar is less likely to shift.
4. When any cart is found to have broken, missing, or sticking parts, take it out of service immediately until repairs can be made.
5. If available, use a cart with a safety strap/chain to help prevent shifting while transporting dewars.
6. Be alert and watch out for pinch points; watch where you place your fingers and hands (don't use hands to stabilize dewar on cart during transfer).
7. Further recommendations may result following the complete incident investigation.

Additional safety information is available in [this safety notice](#) from Argonne's Photon Science's Group.

Incorrect Lifting Pin Height Adjustment



Correct Lifting Pin Height Adjustment and hand placement.



Coordinate Measuring Machine (CMM) Damage

A crew was moving a 5200lb Coordinate Measuring Machine (CMM) using heavy machinery rollers and cribbing. The move was to consolidate all of the CMM's into one area. Approximately 2/3 of the way through the move the table came off its cribbing and contacted the floor. No injuries resulted, though there was significant damage to the CMM.



Using causal analysis and Human Performance Improvement (HPI) principles a couple of factors contributed to the accident. The crew had moved similar equipment successfully using this method, but this CMM had a slightly different configuration. The configuration change led to more cribbing needed to remove the table from its stands. The table was moved in this heightened position, instead of carrying the load as low as possible. Heavy equipment moving experience was limited to one individual of the group; a Hazard Analysis should have been written due to the complexity of the machinery moved and the inexperience with this configuration change in the machinery that led to a slightly different process.

The work in this area pertaining to the rearrangement of equipment was put under a stop work order by management. A hazard analysis will be written and the thresholds of when to write a HA will be communicated to the division. The move will be reviewed before work is restarted.

Sterno® and Candle Safety

[Sterno Gel](#) is a convenient way to keep foods warm in chaffing dishes, or for use on camping trips; but if not handled properly, burns can occur.

Please take precautions when using this material:

- Always wash fuel residue from hands.
- Place the can under the chaffing or butane lighter.
- Always use a long-handled match or butane lighter to light cans.
- Never use a lit can to light another can.
- Never carry lit cans.
- Never try to blow out the flame of a Sterno can.
- Read more Sterno fuel handling tips [here](#).
- Additional safety information is available at the [Sterno Education and Safety](#) page.



More than 15,000 candle fires occur each year in the U.S. By following the candle safety tips below, you should be able to avoid a fire in your home:

- Always keep candles at least 12 inches from combustible objects.
- Always blow out candles before leaving the room.
- Keep candles away from children and pets.
- Additional safety tips are available in [this factsheet](#) from the NFPA, or from the [National Candle Association](#).

Area recycling events

 Village of Hanover Park Recycling Extravaganza - Saturday, September 17 - 9:00 am to 1:00 pm - 250 S. Route 59, Bartlett
List of accepted items include: electronics, smaller electronic appliances (ie. coffee maker, irons, etc.), CFLs, scrap metal, toner cartridges, holiday lights, extension cords, cell phones, bicycles, car batteries, books, magazines, propane tanks, prescription drugs, document shredding (3 box limit), lead-acid batteries, keys, fire extinguishers, motor oil, anti-freeze, wheelchairs, worn American flags, eyeglasses, hearing aids and gently-used shoes.

3rd Annual SCARCE Cantigny Green Fair - Saturday, September 24, 2011 - 10:00 am to 4:00 pm - Cantigny Park, 15151 Winfield Road, Wheaton
Spent a fun day at the annual Green Fair with enjoyment for all ages. Check out the Green Fair for great food, tons of green vendors, kid's activities, a Recycled Art Gallery, and even a super trendy Fashion EcoNista Show. Be one of the 4,000+ people who learn about the latest green products & items. To volunteer, or for more info, visit www.scarcecoed.org or call 630-545-9710. The fair will also have a recycling collection accepting the following items: electronics, pet supplies, rulers, scrap metal, toner cartridges, holiday lights, extension cords, cell phones, bicycles, wheelchairs, household batteries, working sewing machines, gently-used (clean) clothing, lead-acid batteries, worn American flags, yarn, buttons, eyeglasses, hearing aids, keys and ink cartridges.

Lombard Recycling Extravaganza - Saturday, September 24 - 9:00 am to 3:00 pm - 255 E. Wilson, Lombard
List of accepted items include: electronics, car/marine batteries, scrap metal, all books, indoor or outdoor flower pots (no plastic), cell phones, eyeglasses, hearing aids, keys; bicycles, crutches, wheel chairs, gently used shoes (no high heels) and worn American flags.

Downers Grove Recycling Extravaganza - Saturday, September 24 - 8:00 am to 2:00 pm - Public Works building, 5101 Walnut Ave., Downers Grove
List of accepted items include: lead acid (SLA) batteries, electronics, small electrical appliance (ie. coffee makers, irons, etc.), propane tanks, scrap metal, bicycles, wheel chairs, ink cartridges, cell phones, buttons, rulers, worn American flags, keys, and document shredding (2 box limit).

Sims Recycling Event - Saturday, October 1 - 9:00 am to 2:00 pm - 1600 Harvester, West Chicago
List of accepted items include: electronics and scrap metal.

Recycle your Old Fridge or Freezer for FREE and Earn Money!
ComEd offers a \$35 rebate for recycling your old working fridge or freezer (valid for ComEd customers). Make an appointment for ComEd to pick up your fridge or freezer for free and receive your rebate. Schedule today [online](#) or call 888-806-2273.

The "Doh!" Photos of the Month



PPD August Injuries

8/11/2011—employee incurred a bee/wasp sting on their thumb while attempting to climb a ladder. 

8/26/2011—visitor was cutting ribbon cabling with scissors, and cut their ring finger with the scissors causing a small laceration. Other tools were considered for this job; unfortunately the alternatives do not seem to be any safer. The scissors remain the best tool for this job.

August Winner!!!



Johnny Green

Question: Name all 3 changes in the new version of the Material Move Request (MMR) form.

Correct Response: 1) Radioactive material and DOT hazardous material info now on two lines; 2) Calibration due date, background reading, source check, battery check added; 3) Extra survey entry lines for BSS to use upon receipt.

September Contest

For a chance to win a PPD ES&H acrylic cup w/ straw, please answer the following correctly:

In honor of [National Preparedness Month](#), please tell me: What are 5 things you should have in your [emergency survival kit](#)?



Please submit your responses/answers to [Angela Sands](#) by September 23rd.
(If there are multiple correct answers/entries, a drawing is held.)

Did you find this newsletter helpful? Does it have the kind of information you are looking for? Your feedback is important. Please continue to use the [electronic safety concern database](#), the suggestion boxes in your area, or send comments to Angela Sands, asands@fnal.gov