

APS Safety Status Update

Users Monthly Operations Meeting July 26, 2006

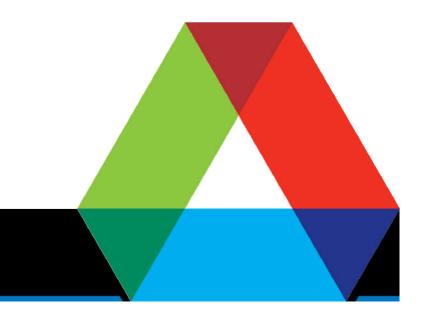
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APS Current Safety Status Overview

- There have been fewer recordable injuries so far than for FY2005
- Implementation of the revised Radiation Safety System Policy is proceeding without major hitches
- Have initiated inspections of electrical equipment that has not been tested by a nationally recognized testing laboratory (non-NRTL)
- Internal Argonne inspections and assessments have increased and are pointing out some recurring issues at APS
- Evaluating proposed change to sharply reduce number of TLDs required



OSHA Recordable Injuries

- FY2005 5 recordable medical treatment injuries and 1 injury resulting in lost or restricted work days
- FY2006 (through July) 2 recordable medical treatments and in injury resulting in lost or restricted work days
- Argonne has recently experienced a sharp increase in bee stings and everyone should remain aware of locations that "traditionally" have bee or wasp nests – especially watch for bees or wasps around external gas cylinder storage areas



Revised Radiation Safety System (RSS) Policy

- Have gone through 2 complete maintenance periods under revised policy
- Recently clarified authority for instrument station RSS components
- Have had 1 incident where policy was violated
 - Involved welding a component into a fixed position
 - Welding proceeded without obtaining a signed authorization permit
 - Resulted from miscommunication between APS staff and beamline staff as well as within the beamline staff



Non-NRTL Electrical Equipment Inspections

- Initiated inspections earlier this year
- Have had additional APS staff trained in inspection methods
- Many inspected items have required rework in order to pass the inspection
- Are working towards granting exclusions to equipment fabricated by reputable firms
- Program will continue to develop over the next year



Increased Internal Argonne Inspections/Assessments

- Limited Hoisting & Rigging Training & Certification review conducted in May 2006
- Implementation of OA APS Findings Corrective Actions assessment conducted in late June 2005
- Work Control Process assessment planned site wide APS will be assessed the week of August 28 – September 1, 2006
- Electrical Safety site wide assessment to be conducted in mid-September
- Hoisting & Rigging Program site wide assessment to be conducted in early October
- Pressure Safety Program site wide assessment to be conducted in early December
- Ongoing spot inspections and limited scope assessments



What It Feels Like





Recurrent APS Issues

Gas cylinder storage problems

- Overflow storage cages
- Improperly securing cylinders
- Improper storage or disposal

LOM machine shops

- Placing lead contaminated waste in designated scrap containers is not allowed, but has been occurring
- Propping open doors to machine shops
 - Doors found propped open with no one around
 - Defeats purpose of card key entry
- Ensuring only trained & certified personnel cut, drill, or grind lead



Some Gas Cylinder Storage Examples







More Gas Cylinder Storage Examples





Proposal to Reduce Number of TLDs

- Over 10,000 TLDs issued to APS each year
- No measurable dose to users or nearly all APS staff
- 10 years of experience and dose measurements show well shielded facility
- Proposal is to require only a few APS and resident users to wear TLDs
- Work activities currently being reviewed to determine who will be required to wear TLDs
- Likely to go into effect at end of FY2006

Some Bright Spots

- Argonne Accelerator Safety Review Committee reviewed APS in May and gave a positive report
 - "Commendable safety record"
 - "Strong commitment to safety"
 - Experiment Safety Assessment Form (ESAF) system and Integrated Content Management System (ICMS) singled out as strong points of the APS

ESAF process continues to receive praise from reviewers

