

Town Meeting

July 29, 2014

Safety Update

- Injuries / Events
- NSLS Stabilization
- PPE
- NSLS II Beamline Readiness

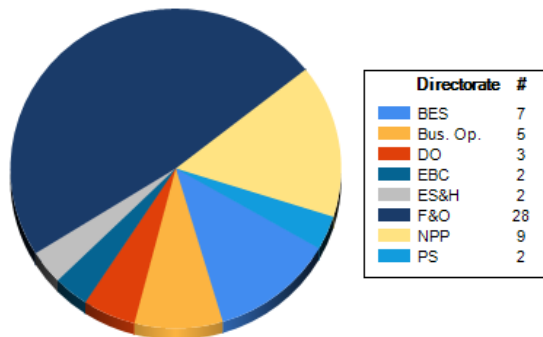
BNL Injuries

FY 14

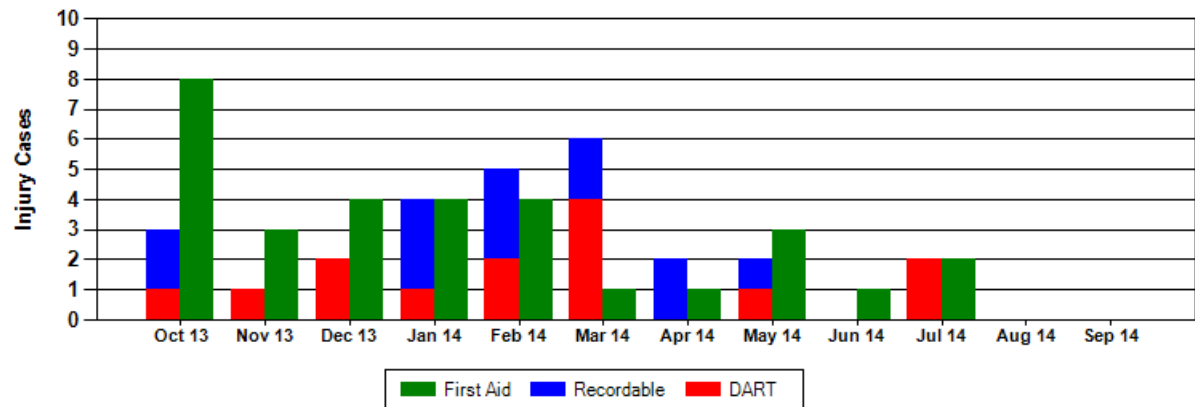
DART
Recordable
First Aid

Days Away, Restricted, or Transferred
 More than just first aid
 Minor treatment

FY2014 Injuries by Directorate



Fiscal Year 2014 Injury Cases



	YTD Cases	Rates
<u>DART:</u>	14	0.56
<u>Recordable:</u>	27	1.17
<u>First Aid:</u>	31	N/A

Total Injuries: 58
 Rates As Of: June 2014
 Most Recent Injury: 07/21/2014

PS Injuries (Staff & Users)

FY 14

3 Total

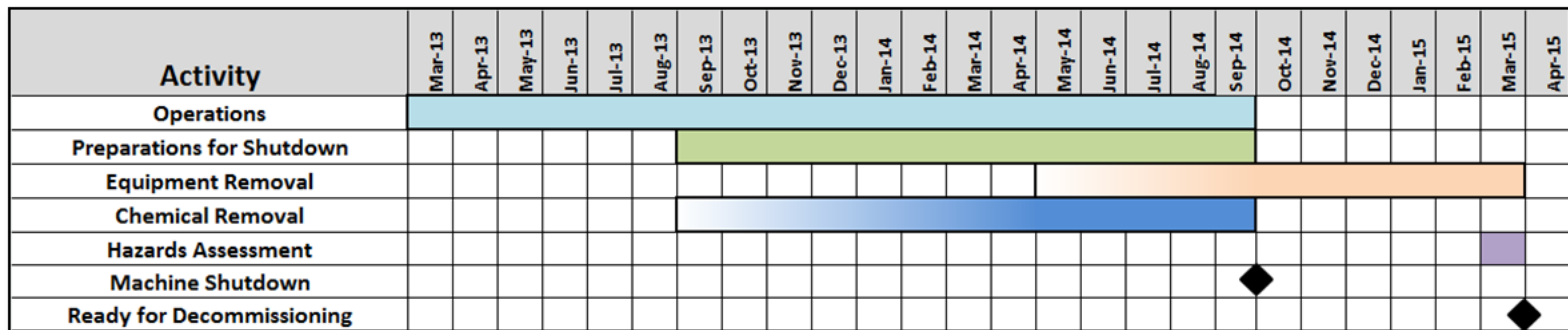
- Fall; shoulder, arm Staff (Non-PS) DART Dec '13
- Tool drop; fractured finger Staff Recordable Feb
- Fall; knee Staff First aid May

PSD Events (*No Injuries*); 15 Total FY 14

- | | |
|--|---------|
| • Booster to VUV transport line shutter vacuum leak | Nov '13 |
| • Switch gear failure; Power interruption to 740 | Nov '13 |
| • Motor Vehicle Accident; Parked car struck | Jan |
| • Emergency response; Flammable gas release bldg. 522 | Jan |
| • Damaged PPS door switch, NSLS II | Jan |
| • Bake out smoke | Feb |
| • Fork lift propane leak | Feb |
| • X27 Water leak | April |
| • X21 Water leak | May |
| • Loading dock fluid leak | May |
| • Sprinkler head break | May |
| • LOTO | Jun |
| • Magnet; electrical | Jul |
| • Damaged compressed air line | Jul |
| • Vacuum relief | Jul |

NSLS Stabilization

- Remove hazardous reagents and gasses.
 - 23,000 lbs; 4000+ containers (500 gas cylinders)
- Remove hazardous wastes.
- Drain water systems.
- Remove equipment with an identified use at NSLS II
 - Lead removed and cleaned
 - U4 & U1 chamber removed before end of ops



PPE

PPE is required for all manual work

Task (725 & 740)

- Posting
- Permits (SAF; Green Sheet)
- Procedures

Area (Labs)

- Posting
- Permits (ESR)
- Procedures

- Technical basis
- Permits, JRA's, Procedures



Beamline Readiness

Project Beamlines

ID	Name	
03	HXN	Hard X-ray Nanoprobe
05	SRX	Submicron Resolution X-ray Spectroscopy
10	IXS	Inelastic X-ray Scattering
11	CHX	Coherent Hard X-ray Scattering
23	CSX	Coherent Soft X-ray Scattering
28	XPB	X-ray Powder Diffraction

Readiness Planning

Formal Process

- **Ready** means
 - Hardware and infrastructure to start commissioning:
 - Technical (safe photon beam delivery)
 - Science
- Instrument Readiness Plan
 - Criteria
 - Actions to meet criteria
 - Status tracking
 - Managed as three “Pillars”
 - Hardware
 - Procedures
 - Personnel

ID
Front End
Beamline

Readiness Planning

- Hardware Systems (13)

- Hutches and beam line layout
- Optics; steer and focus
- Radiation Safety Components
- Shielding
- End station equipment (diagnostic)
- Other Beamline Components
- O₂ Sensors
- Utilities (water, electrical power)
- EPS
- PPS
- Area Radiation Monitors
- Vacuum
- Controls

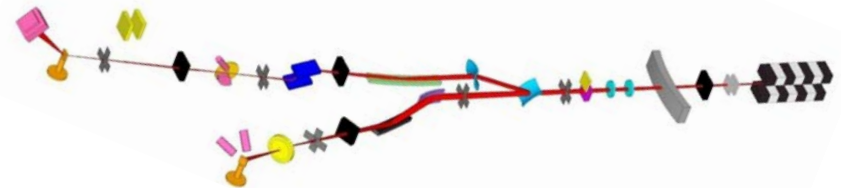
Travelers

- ~30 Procedures

- Personnel Training

- Lead Beam Line Scientist
- Authorized Beamline Staff
- Machine Operator
- Floor Coordinator

Design; Install; Test



END

Readiness Planning

Pillar I; Documentation & Procedures

- Authorization basis (SAD/ASE) / ESH / QA
- Commissioning Procedures (29 Total)
 - Facility (17)
 - Commissioning Activity Approval
 - Enable
 - Ray trace
 - Configuration control
 - PPS Secure ...
 - Beam Line Specific (12)
 - Rad survey plan
 - PPS Certification ...