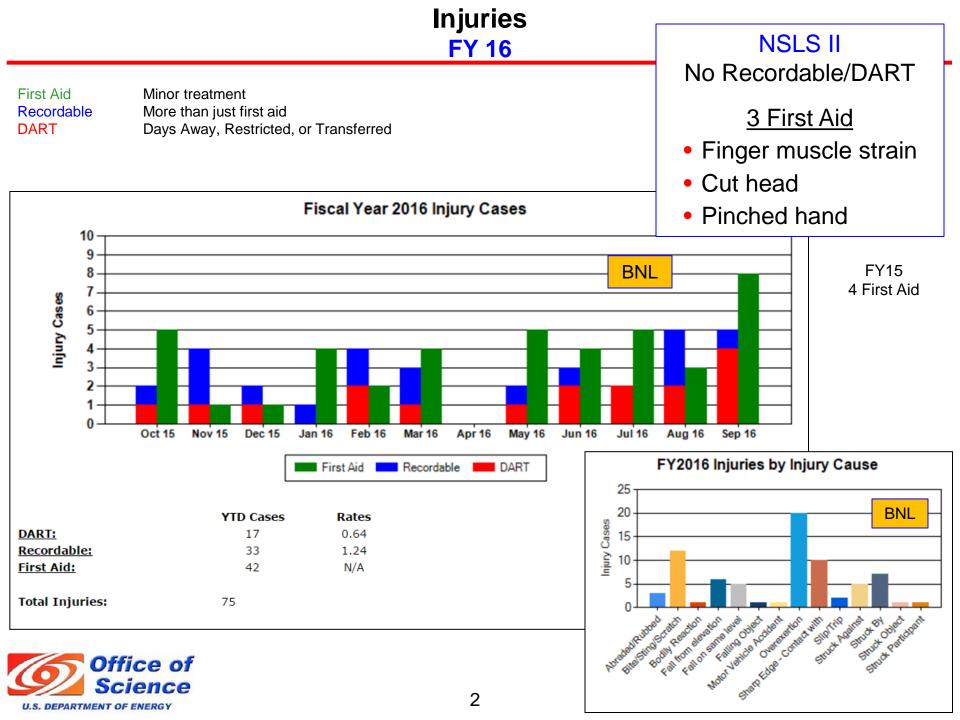
Town Meeting

December 09, 2016

Safety Update

- Injuries
- Readiness
- ODH Event Follow Up
- Safety Approval Forms

A. Ackerman



Injuries FY 17

NSLS II

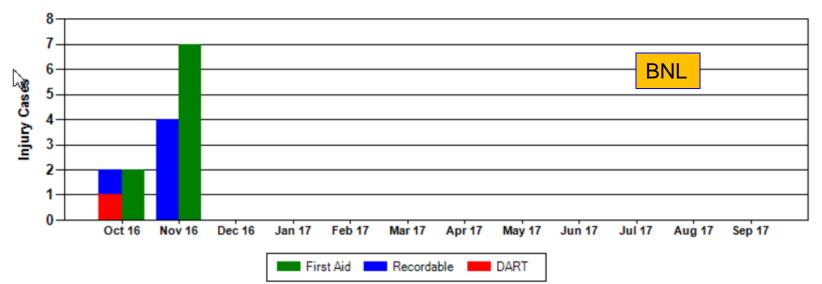
• Object in eye (Recordable)

First Aid	Minor treatment
Recordable	More than just first aid
DART	Days Away, Restricted, or Transferred

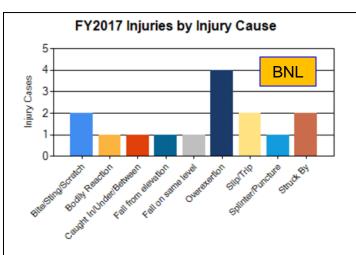
Science

U.S. DEPARTMENT OF ENERGY

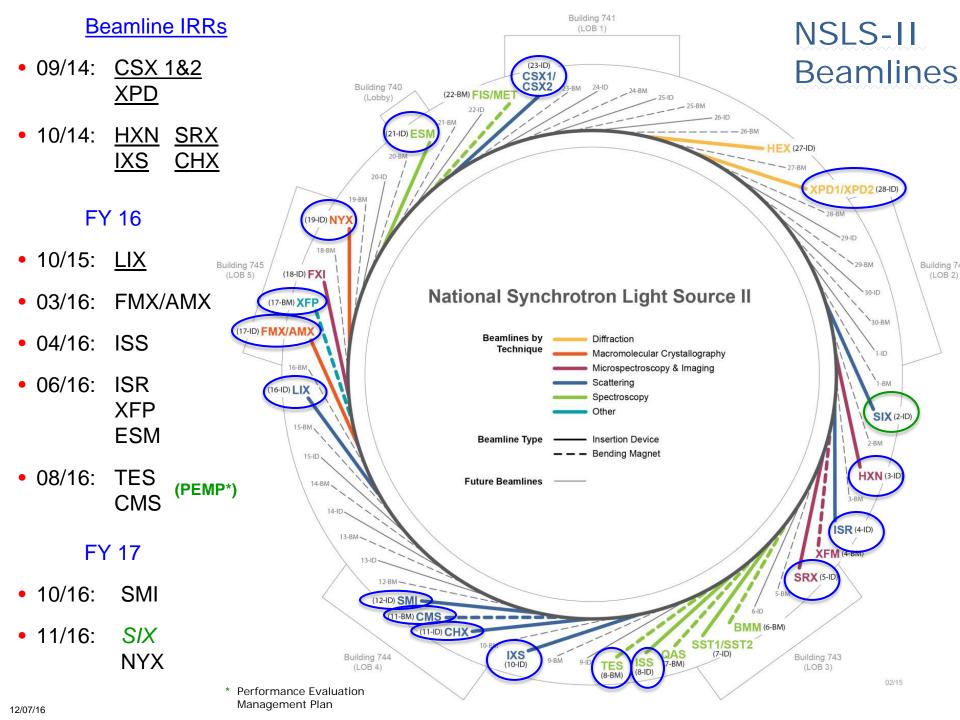
Fiscal Year 2017 Injury Cases



YTD Cases	Rates
1	0.23
6	1.37
9	N/A
15	
November 2016	
11/29/2016	
,,	
	1 6 9 15 November 2016



Instrument Readiness



Oxygen Deficiency Hazard (ODH)

Follow – up

Three ODH Alarms (LN2 & GN2)

- Small dewar fills (2 instances) in 741 receiving room; vapor at sensor = alarm
 - Partial building evacuation
 - Improper re-entry; no Fire rescue clearance
- Unsecured plastic GN2 line at beamline; N2 gas to sensor = alarm
 - Incomplete response; staff remained; no call to the Control Room



- Establish open dewar filling area on the experiment floor ODH Null location; isolated from walkway; LOB 1 & 3
- Stop open dewar fills in the Receiving Rooms; post signs
- Install a GN2 isolation valve at 17-ID and other pertinent hutch locations
- Change all O2 sensor alarm level from 19.5% to 18%
- Revise the ODH alarm response procedure; better manage unnecessary alarms, strategy for unmanned Control Room periods





- Install UPS power back-up for the Receiving Room O2 sensors
- Identify the O2 sensor electric power circuit breakers; alternate O2 monitoring is needed to interrupt power; post a sign
- Reconfigure the Receiving Room O2 alarm strobes to latch when activated; FloCo key reset
- Install local camera monitoring for the Receiving Rooms





Safety Approval Forms

SAF Review PASS Status = Pending Post Hold Email to ERC PASS Status = Pending PASS Status = as noted PASS Status = Hold "SAF Received" email to: Email to: "SAF Hold" email to: • PI • PI • PI PASS Status = as noted Co-PI Co-PI Co-PI Email to ABS (SAF Reviewer) • Proposal Creator • Proposal Creator • Proposal Creator • SAF Creator • SAF Creator • SAF Creator • All Experimenters • All Experimenters Approved Approved Experimenter Pending Concurrence Hold (ERC Review Required) resubmits (ERC Review Required) Need Info SAF No ERC Approved Yes Expires in Experimenter ABS Concur? Approved Pending Concurrence submits SAF Review One Year Start Safety Approved Approved Consultant Pending Concurrence (Requires Notification) Review (Requires Notification)

ABS = Authorized Beamline Staff ERC = Experiment Review Coordinator PASS = Proposal, Allocation, Safety, & Scheduling PI = Principal Investigator SAF = Safety Approval Form

SAF Use Timely Submission

- Risk analysis and control is a shared responsibility User, ESH, Beamline staff
- Early submission is best: 1 2 weeks
- Program maturing late forms are understood, but not acceptable
- Don't want penalties
- Need beamline staff support
 - Use PASS check on scheduled Users
 - Engage Users in the problem
 - Several people involved help make this effective and efficient
 - We all want:
 - Complete risk analysis and control with no surprises
 - Efficient beam time use





END