

Safety Update and Survey Results

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U.S. DEPARTMENT OF
ENERGY

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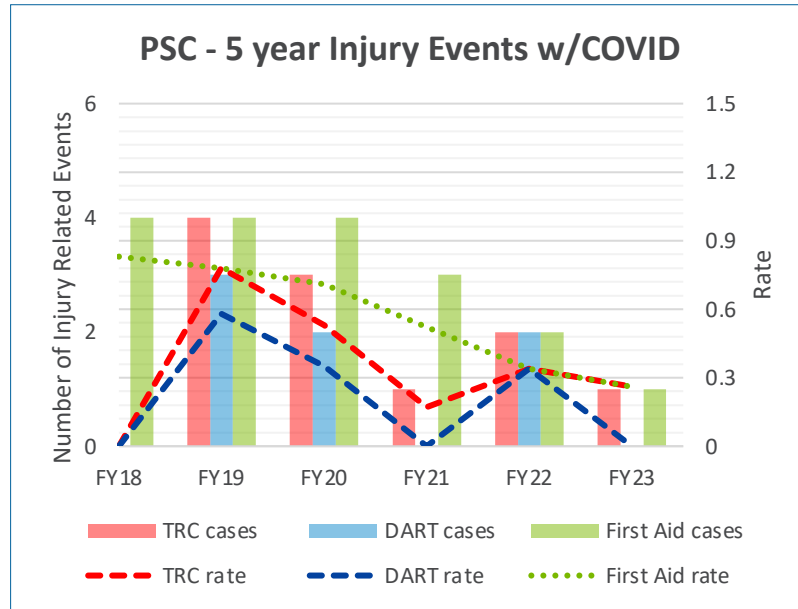
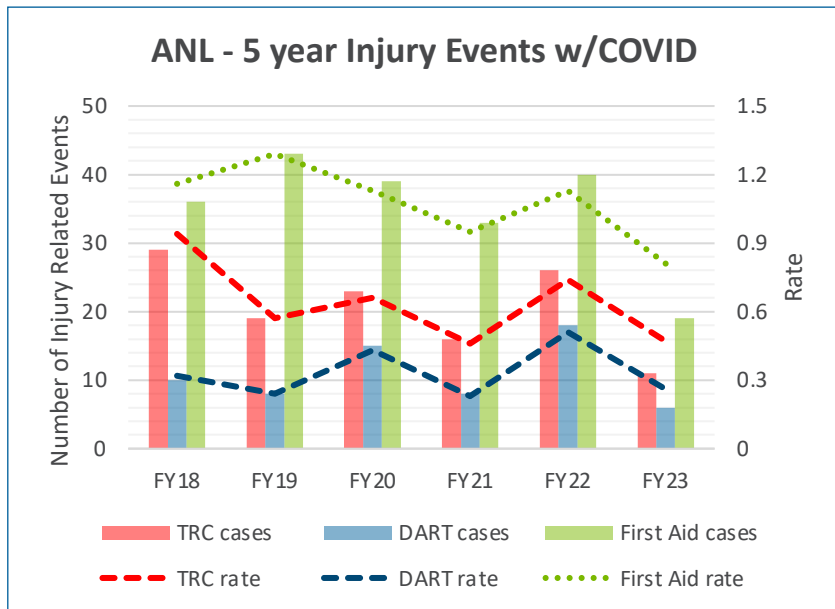
SAFETY

Photon Sciences safety record for FY23 – No additional events since last report

1 First Aid Injury

1 OSHA Recordable Cases (TRC)

0 Days Away or Restricted Time (DART)



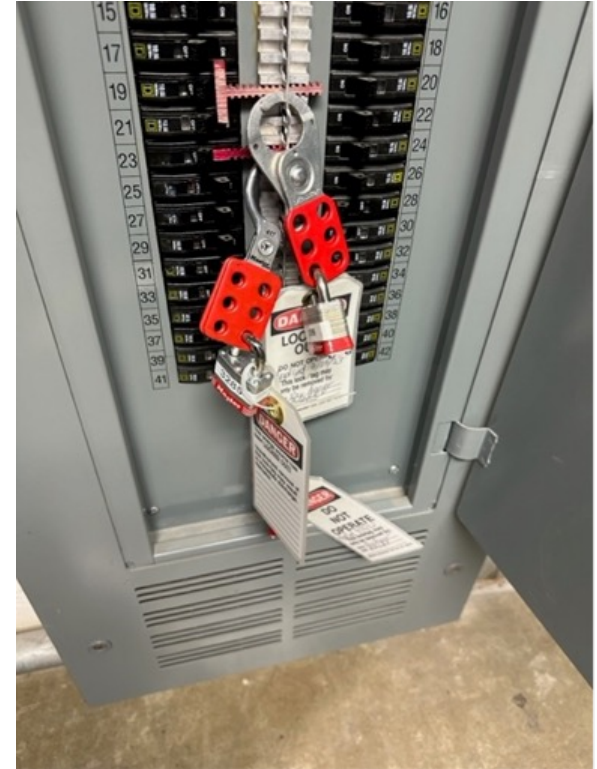
ELECTRICAL ARC WHEN PULLING CABLE IN ZONE F

- Contractor removing cables in Sector 38 (Zone F) of the APS Storage Ring tunnel observed an electrical arc when pulling the cable through the cable tray
- Paused all cable pulling operations and planned activities to ensure a safe restart
- De-energized all technical power in Zone F to bring to same state as Zones A – E
 - Power had been left on to keep vacuum in remaining cavities
- Completed multiple walkdowns and verifications to allow safe restart



ELECTRICAL ARC – WHAT WENT RIGHT?

- No one was injured because of this event.
- Work was immediately paused.
- Communication between the contractor and ANL staff was effective and timely.
- The contractor employee who pulled the conductor recognized the electrical arc right away and reported it to their foreman, and PSC personnel.
- Activities to ensure a safe restart were thoroughly analyzed and implemented
- Adding a change control process for Hazardous Energy Control



SAFETY SURVEY RESULTS

- 180 people responded to the survey
- Thank you to everyone who provided feedback!



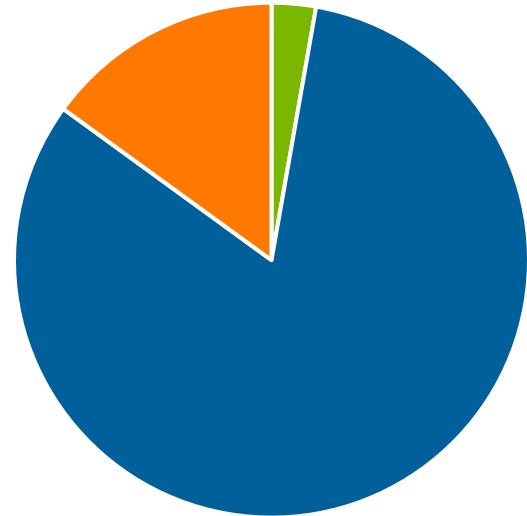
SAFETY SURVEY RESULTS

- *“We have seen **small adjustments being made to the overall safety plan** in response to the work and how it has been progressing. Making small adjustments is **encouraging as it shows there is continuous feedback** of the safety process taking place.”*
- *Some safety concerns are **taken care of promptly**, others are **not addressed** without explanation.*
- *“I get a lot of **updates** and information. I know who to talk to if I have an issue.”*
- *“Communication hasn't been the best, with **posted timetables being shifted unexpectedly and contradictory messages on how to gain mezzanine access**. To be expected at the start, but a little frustrating.”*
- *“I think that **safety concerns** that have come up have been **addressed adequately**.”*
- ***Themes: Smart Cards, PPE, WPC/WCD process, Lead, Working Alone***

SAFETY SURVEY RESULTS

Overall, since the start of the shutdown, how would you rank our safety efforts?

- Excellent (148)
- Fair (27)
- Needs improvement (5)
- Unsatisfactory (0)



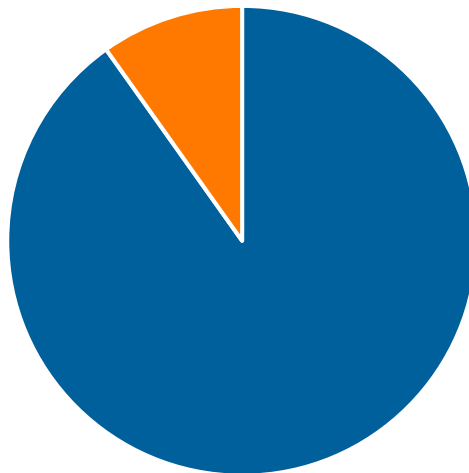
97% of responses were excellent or fair

“Safety has been at the forefront of the project so far. We can improve some things but overall, I feel things are going good.”

SAFETY SURVEY RESULTS

In the last year, have you witnessed a safety incident or near miss in the workplace? Did you report the safety incident or near miss?

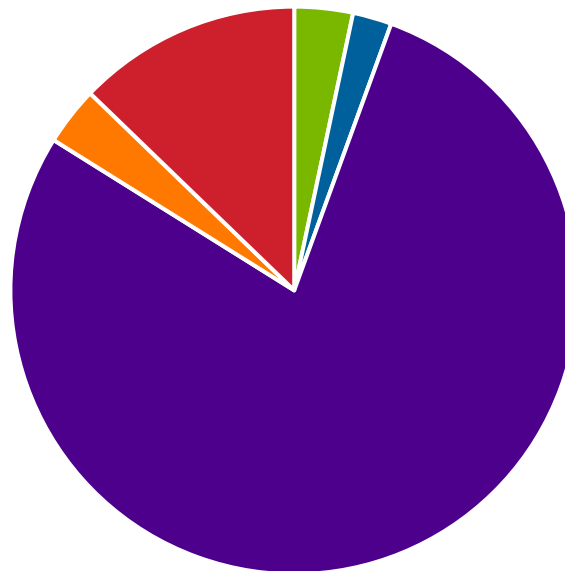
- 7.8 percent of respondents witnessed a safety incident or near miss in the past year.
- Of those, 21 percent did not report the incident or near-miss.
- **Reasons given:**
 - *“I did not want to snitch”*
 - *“Safety is punitive”*
 - *“Sometimes it is easier to fix the problem promptly, and I do not really know how to report a near miss, and who will be 'blamed' at the end”*



SAFETY SURVEY RESULTS

Approximately how often do you submit a Smart Card?

● 4-5 times a month	4
● 3 times a month	6
● 1-2 times a month	6
● <1 time a month	23
● Never	141



*“At the next meeting explain to us,
what is a Smart Card?”*

“What is a ‘Smart Card’?”

“I don't know what a ‘Smart Card’ is”

SMART CARDS

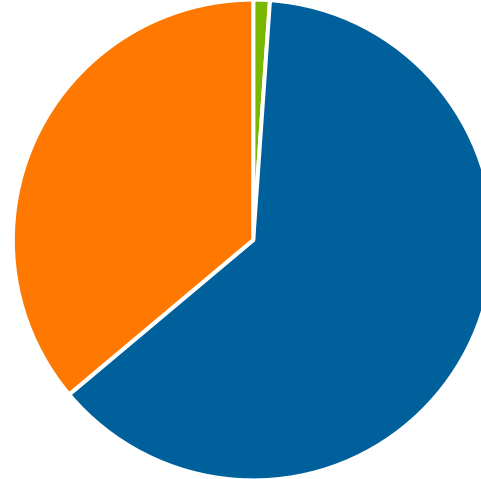
- SMART Card –
 - Observation checklist
 - Aims to reduce incidents by
 - Reinforcing safe behaviors
 - Help to create safe work habits
- Why we use them –
 - Leading metric – predictive of areas that need addressing
 - Everyone can play a part in recognizing safe behavior and improving safety habits
- How to access – www.aps.anl.gov
 - >Safety>PSC Safety Resources
 - >Management Tools

Check If Any Unsafe	Check If All Safe
REACTIONS OF PEOPLE	
<input type="checkbox"/>	<input type="checkbox"/>
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PERSONAL PROTECTIVE EQUIPMENT	
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<input type="checkbox"/>	<input type="checkbox"/>
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<input type="checkbox"/>	<input type="checkbox"/>
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POSITIONS OF PEOPLE (Injury Causes)	
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TOOLS AND EQUIPMENT	
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WORK PLANNING & CONTROL (WPSC)	
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<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
ORDERLINESS	
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
INTEGRATED SAFETY MANAGEMENT	
<input type="checkbox"/>	<input type="checkbox"/>
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<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
Facility	
Date:	
Safe Acts (Required)	
Unsafe Acts	

SAFETY SURVEY RESULTS

How confident are you in your ability to identify and report safety concerns in the workplace?

● Very confident	113
● Confident	65
● Not confident	2

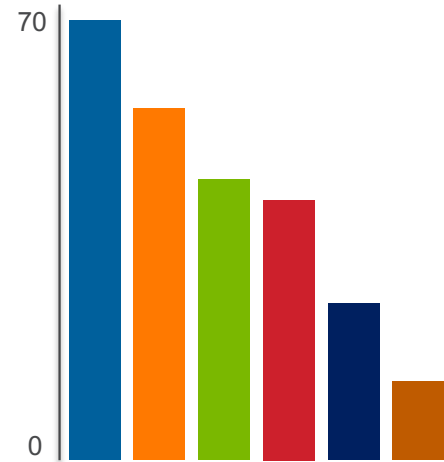


“I can identify, but I do not know how to report, then how much time it will take to complete the paperwork and follow-ups, while other parallel commitments are in the way, and we are already overwhelmed.”

SAFETY SURVEY RESULTS

Which safety topics do you feel need more focus in the future or have not been addressed enough? (Select all that apply)

● First aid and CPR training	67
● Workplace ergonomics and safety	56
● Hazardous materials handling and disposal	46
● Other	44
● Personal protective equipment (PPE) use and maintenance	26
● Fire safety and emergency evacuation procedures	10



“Electrical. It gets addressed a lot and is still the biggest issue.”

HEARTSAVER CPR AND FIRST AID TRAINING

Enroll through TMS: [ESH109FA](#)

- Next available sessions:
 - Tuesday, 8/1 12:30-3:30 PM
 - Wednesday, 9/6 8:30-11:30 AM
 - Wednesday, 9/6 12:30-3:30 PM
 - Wednesday, 11/8 8:30-11:30 AM
 - Wednesday, 11/8 12:30-3:30 PM

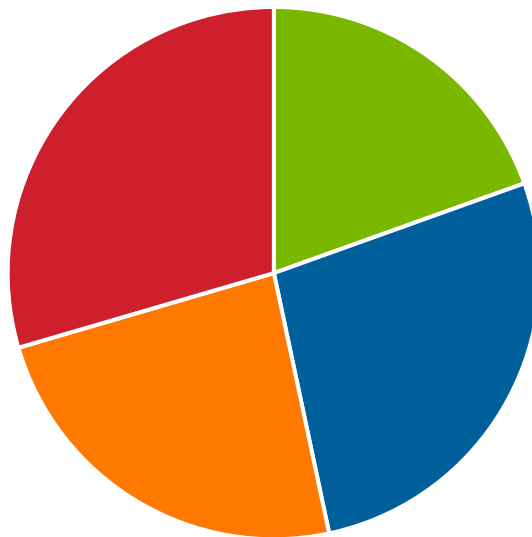
“We have no first aid training at all because we're instructed to dial 911 even for a small cut. I was told we aren't allowed to have first aid supplies on hand because we are not to handle even the smallest thing ourselves. If this is incorrect, the message needs to get out.”



SAFETY SURVEY RESULTS

What future safety improvements would you suggest?
(Select all that apply)

- More hands-on training and simulation 57
- More visual aids and demonstrations 50
- More interactive activities and group discussion 41
- Other 62



SAFETY SURVEY RESULTS

- *“Extremely unclear on what types of work requires what PPE.”*
- *“Better explanation/justification of novel safety rules, such as why steel-toe shoes need to cover ankles.”*



PPE

What to wear, when and where

- Wear PPE **according to the posting outside the area** you are entering
- Outside of construction areas, PPE is **not** required
- You do not need a hard hat on the experiment hall floor



PPE

What to wear, when and where

- Hard hats, safety glasses, safety boots, long pants, and quarter-length sleeves are currently only required in the following places:
 - Storage ring
 - Storage ring and mechanical mezzanines
 - Sectors 8, 9 and soon to be 15*
- Over-the-ankle steel toed boots are an Argonne construction standard – prevent abrasion when moving equipment

** Always identified in The Week Ahead email and on TV monitors in the ring*

