

USSC, March 7, 2019 – Meeting Minutes

Attendees: Derek Kemp, Lorraine Alexander, Beverly Errede, Judy Faubert, Matthew Hawkins, David Kaufman, Chris Payne, Michael Rolleri

Guests: Cathy Brennan, Garry Coulson, Mary Crabtree, Darrel Jeter

2019 EHS Goals –

Cathy Brennan provided an update on the completion status of Environment, Health and Safety (EHS) organizational goals for the past year (2018). This update was followed by a presentation of the new organizational goals for 2019 for EHS. The Committee approved the goals.

Serious Incident Review –

Cathy Brennan discussed 3 serious incidents that occurred on campus. The first incident was an autoclave burn to an employee on 10/15/2018 resulting in hospitalization and investigation by NC Department of Labor (NCDOL) Boiler Safety Section and NCDOL Office of Safety and Health Administration (OSHA). The incident was attributed to deficiencies in equipment maintenance and cleanliness, lack of training and education on appropriate autoclave safety by the employee, and engineering X with the autoclave allowing it to open while pressurized. Brennan discussed safety efforts to mitigate the risk of reoccurrence of this event on campus.

The second incident was a vehicle fire on 2/1/2019 in which a box truck owned by Division of Comparative Medicine (DCM) caught fire while docked at the Bingham Facility Storehouse. The cause of the fire is unknown. The building was not damaged by the fire. Neither the vehicle nor the building was occupied at the time of the fire.

The third incident was a fire in a commercial dryer in Kenan Football Stadium on 2/15/2019. Cotton towels inside the dryer caught fire. The fire was contained inside the dryer, however significant smoke damage to equipment and uniforms in the room was reported. The cause of the fire was likely lack of preventative maintenance to eliminate buildup of lint or dust inside the machine and the exhaust ducts.

UNC-CH Workers Compensation Program Overview –

Mary Crabtree provided an update to Workers Compensation expenditures in 2018 relative to the preceding 4 years, showing a decline in Workers Compensation expenditures in 2018 relative to 2017. Crabtree also discussed OSHA reportable cases (specifically serious cases with 6 or more lost time days), showing a spike in 2018. The most common causes (incident types) for 2018 were identified, followed by brief discussion on some of the most costly incidents.

Security Update –

Derek Kemp provided an update to activities on campus related to the removal of the Silent Sam pedestal from McCorckle Place. No violence or physical exchanges were reported during recent protests on campus grounds. No arrests were made. The situation continues to be closely monitored.

Emergency Management Update –

Darrel Jeter gave an update from Emergency Preparedness and the request for financial assistance from FEMA. Site inspections of main campus and Institute of Marine Sciences (IMS) have been completed (~\$1.2M damage estimate). Mitigation grant opportunities may exist to recover costs for areas such as the botanical gardens. Currently working with mitigation specialists at IMS for creating berm structures to protect the facility. Jeter discussed the siren test performed on Feb 13th to assess all the components of the system. It was observed during the test that in areas of high pedestrian traffic the siren instructions were not clear, but the tone alert was audibly evident. Current emergency response training with Chancellors cabinet to facilitate coordination of information flow during and after an event to ensure appropriate decision making and resource utilization. UNC System Emergency Management meeting – guidance and best practices on responding to emergencies and how to request resources (personnel and equipment) from other UNC System entities. System office has an RFP out for Emergency Preparedness assessment and evaluation on how the System responded to Hurricane Florence.

UNC vs Duke joint command in place between UNC and Chapel Hill in support of activities related to the event. The EOC will be activated for the game.

Assessing campus safety tool (LiveSafe?) and opportunities for better reaching students (and staff) regarding emergency preparedness measures. Assessing texting to 911 and other technological opportunities that may exist to facilitate reaching the students efficiently.

Agenda
University Safety and Security Meeting
March 7, 2019

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|---|-----------------------------|
| 1. Introductions | All |
| 2. 2019 EHS Goals | Mary Beth Koza |
| 3. Serious Incident review | Cathy Brennen |
| 4. UNC-CH Workers Compensation Program Overview | Mary Crabtree |
| 5. Security Update | Derek Kemp & Jeff McCracken |
| 6. Emergency Management | Darrell Jeter |

Items in Bold need to be voted upon

Item(s) in BOLD require committee approval.

USSC Meeting

March 7, 2019

Agenda

1. Introductions
2. 2019 EHS Goals
3. Serious Incident review
4. UNC-CH Workers Compensation Program Overview
5. Security Update
6. Emergency Management

All

Cathy Brennan

Cathy Brennen

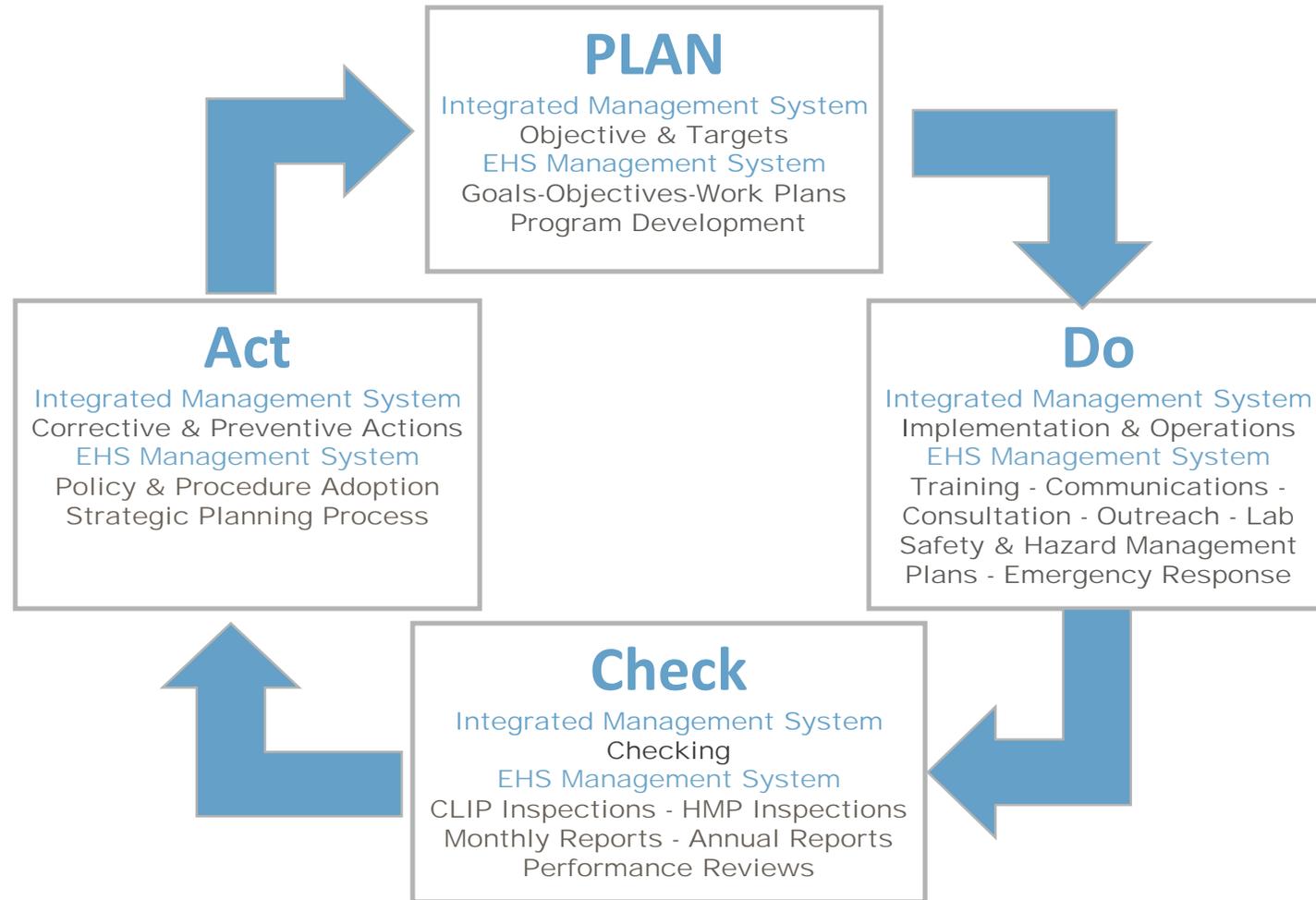
Mary Crabtree

Derek Kemp & Jeff McCracken

Darrell Jeter

Items in Bold need to be voted upon

UNC-CH EHS Management System



EHS 2018 Goals Status

	Completed	Continued into 2018	Stopped
Intrapreneurship	5	1	1
Education	5	1	1
Compliance	6	7	1
Growth	1.5	2.5	

EHS 2019 Goals

- Intrapreneurship
- Education
- Compliance
- Growth

EHS 2019 Goals Status

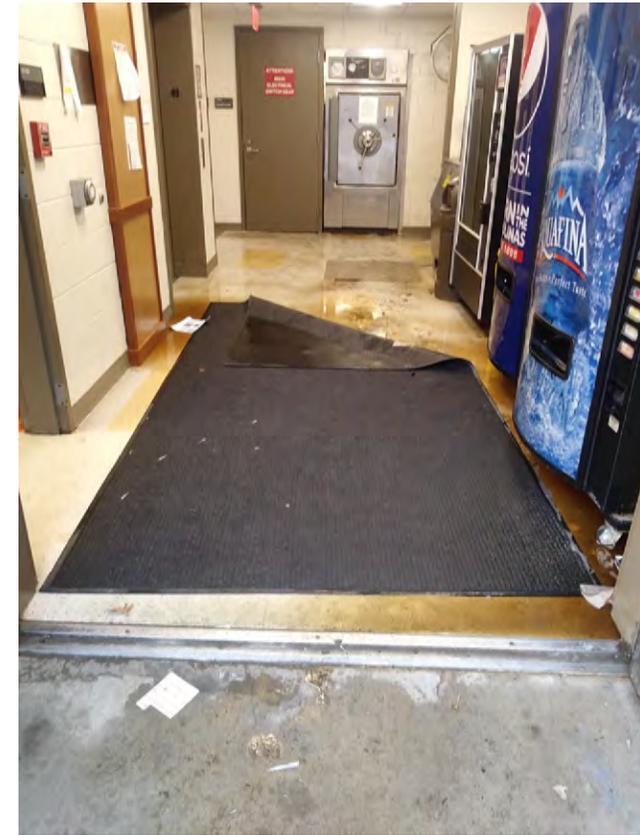
	New	Continued into 2018
Intrapreneurship	7	1
Education	8	1
Compliance	4	7
Growth	6	

Serious Incidents

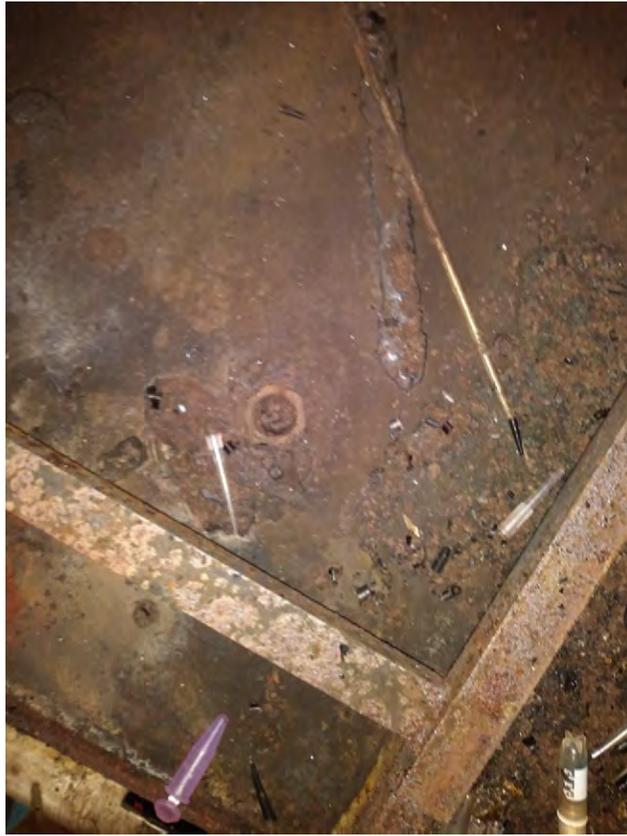
- Autoclave Burn - Lineberger (10/15/18)
- Vehicle Fire - Bingham Facility (2/1/19)
- Commercial Dryer Fire - Kenan Football Center (2/15/19)

Autoclave Burn

- Occurred Monday, October 15th at 9:30 am
- EHS Fire Safety personnel responded to fire alarm and were alerted by bystanders at adjacent Thurston Bowles loading dock that someone needed medical assistance.
- The injured person was in obvious distress and unable to communicate their health status. Bystanders stated that the injured person was burned by an autoclave.
- EHS Fire Safety personnel used radio communications to alert incoming fire department response that the fire alarm was set off by steam and their response now needed to become an EMS call for burn.
- CHFD was first on scene followed by EMS unit which began patient care. The Patient was transported to UNC Hospitals for further treatment.



Autoclave Burn



Autoclave Burn

Autoclave Burn

- Hospitalization requires notification to state
- The next day, inspection from Boiler Safety Section of NCDOL
 - Three citations issued:
 1. The vessel has a quick acting closure, as part of the door assembly that allows access to the vessel's chamber. It was determined during the incident investigation that the door on this vessel can be opened while there is pressure in the vessel's chamber. This vessel's door locking mechanism should not allow the door to open, unless there is no pressure in the chamber.
 2. During the time of the incident investigation there was no pressure on this vessel. However, the chamber side pressure gauge read 15 psi and the jacket side pressure gauge read 8 psi.
 3. The safety valve vent in this vessel is not piped to a safe location.
- Letter received from NCDOL OSHA on November 2nd requesting UNC-EHS internal investigation report

Autoclave Burn

- Autoclave was overloaded, and the drain/strainer was clogged which led to the chamber over pressurizing and filling with hot water which sprayed out onto the employee when opened.
- Lack of appropriate specific training and understanding of how the autoclave operates led to the drain/strainer not being cleaned prior to each use which blocked the autoclave unit from exhausting.
- Lack of training also caused the autoclave to be opened while pressurized even though the gauges on front of unit indicated high pressure.
- A gap was identified where autoclave units that do not have a safety mechanism in place to prevent opening while pressurized should not be in operation on campus or pass inspection.



Vehicle Fire

- Occurred Friday, Feb 1st at 11:30 am
- Bingham Facility Storehouse
 - Single story, metal framed, 3200 sq ft
 - Not occupied, no fire protection (except ABC FXs)
- White Cross and Carrboro fire department units responded
- 2015 box truck owned by DCM caught fire (Value \$103, 649)
- Vehicle parked halfway into building while unloading
- Fire originated in truck cab and did not impact structure
- Driver discovered and called 911



Vehicle Fire



Commercial Dryer Fire

- Occurred Friday, Feb 15th at 10:40 am
- Kenan Football Center, 1st floor equipment area
 - 129, 651 sq ft
 - Fire alarm and sprinkler suppression present
- CHFD units responded
- Cotton towels inside of dryer on fire and large amount of smoke
- During event ~30 smoke detectors went into alarm
- Facilities Life Safety had trouble resetting FAS (known issues)



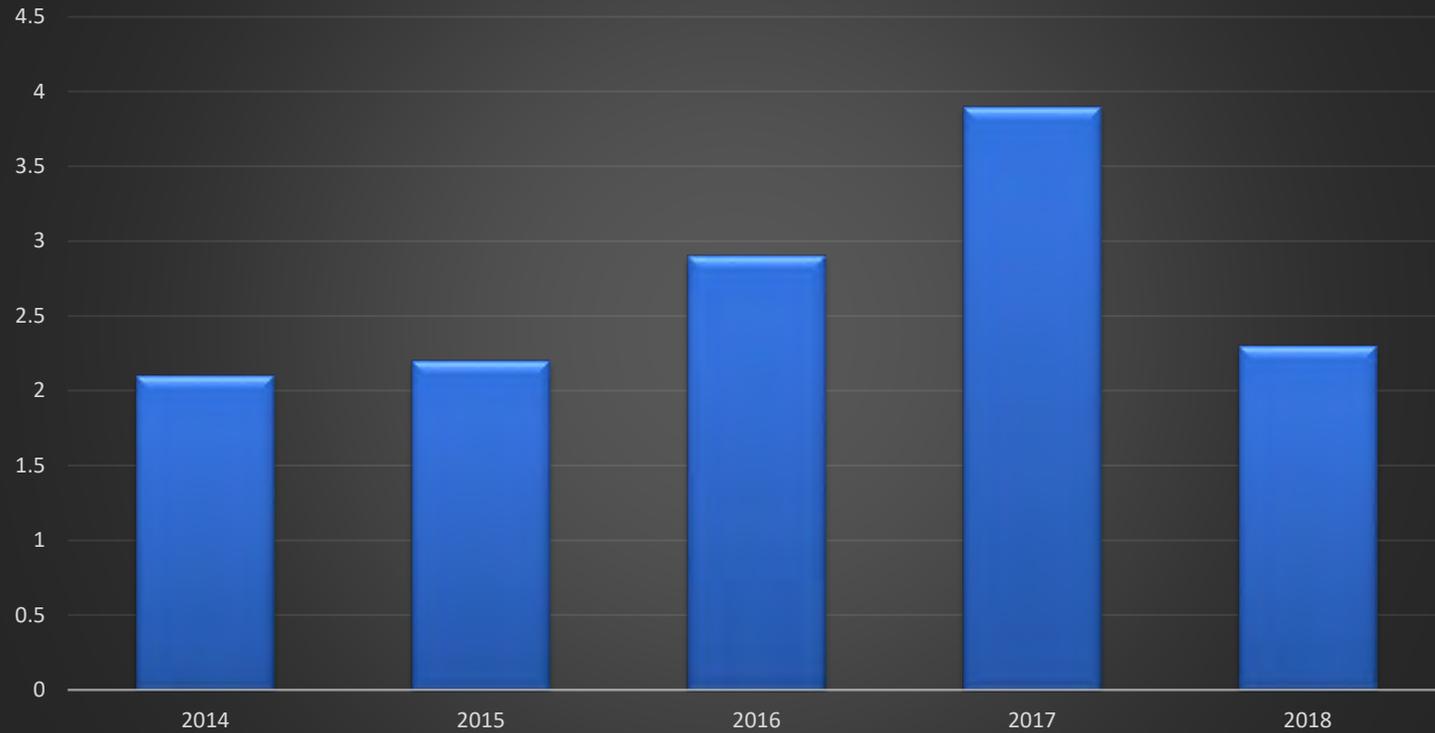
Commercial Dryer Fire

Commercial Dryer Fire

- Value of dryer estimated at \$10,000 – 12,000
- Value of smoke damage to equipment and uniforms still being assessed
- Engineering assessment found dryers/room do not meet code
- Lack of preventative maintenance to eliminate lint/dust inside exhaust ducts

Workers' Compensation

Total Cost Per Year

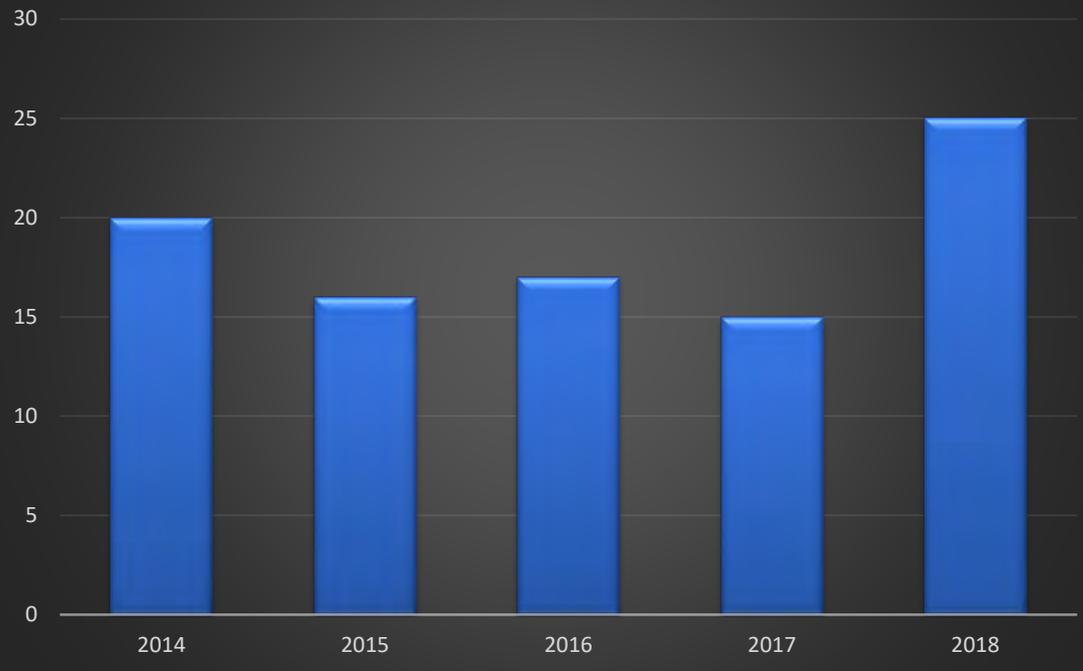


- 2016 Serious Burn Incident
- Continue to make large payments for the 2016 high value claim
- 2017 – Expenditures includes 6 Clinchers
- 2018 – Expenditures includes 3 Clinchers

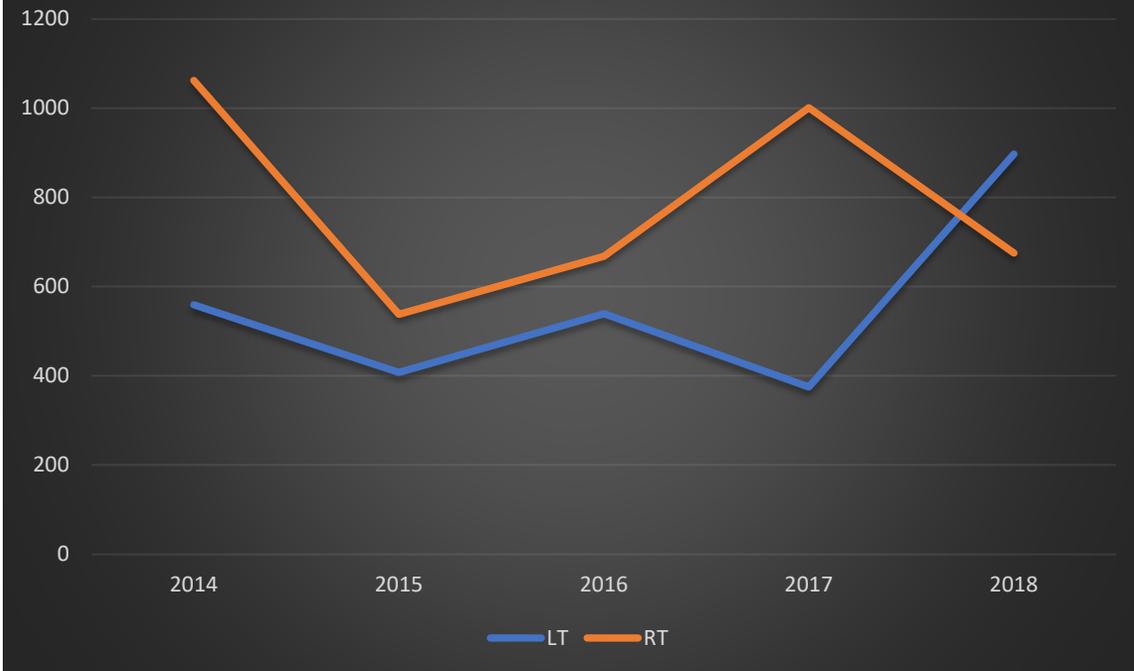
5 Year WC Expenditures



Serious Cases (6 or more LT Days)

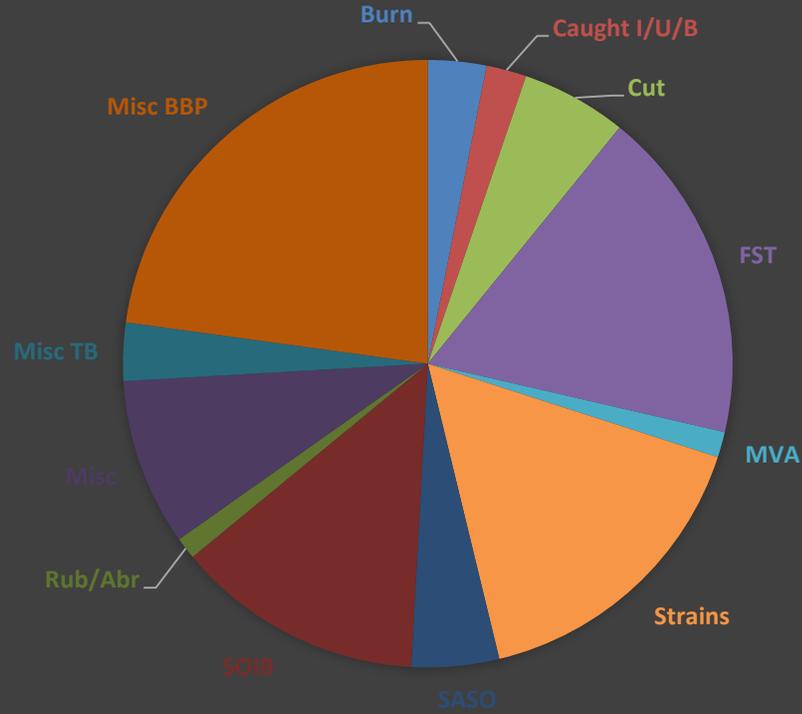


OSHA Lost & Restrictive Days



OSHA

2018 INCIDENT TYPES



Top 5 Most Costly Incidents

(as of March 2019)

- Lineberger Comprehensive Cancer Center
- Facilities – Grounds
- University Library
- University Development Office
- School of Education – Dean’s Office

Incidents by Type

