# VCAT Safety Briefing October 2022



## **OSHE Support for September 26, 2022 Event**

- Day of event response, safety plan to secure site, inform OSHA, serve as POC for OSHA investigation
- Lead NIST safety incident investigation and root cause analysis team
  - Fact-finding phase
    - Document incident site
    - Review safety-related documents, files, and communications
    - Perform interviews with relevant staff
    - 3rd party FE modeling and failure analysis of pertinent structural components
  - Analyze circumstances of event to determine contributing and causal factors, root cause(s)
  - Develop corrective action plan with input from NIST Executives to ensure depth, breadth, and sustainability





### **Incidents and Near Misses (FY22)**



**IRIS Cases FY13 - FY22** 250 203 192 200 188 162 163 159 150 150 109 103 100 77 50 0 FY13 FY14 FY15 FY16 FY17 FY18 FY19 FY20 FY21 FY22

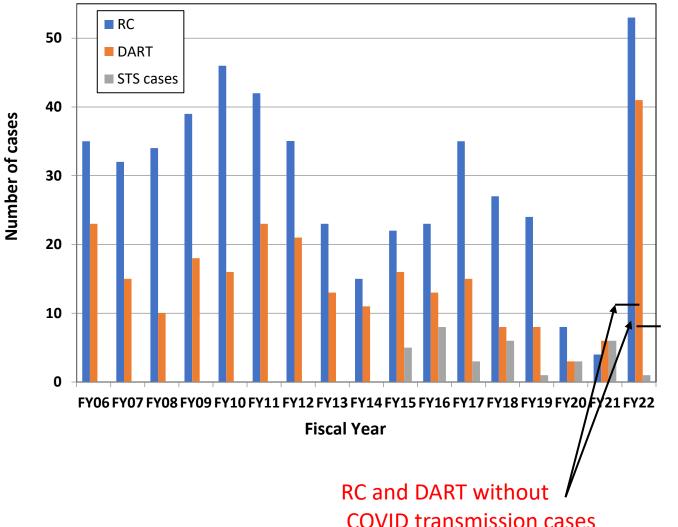
Reduce reporting reflects reduced staffing

Incident and Near Miss Type	Number of Cases	OSHA Recordable Cases
Injury	22	7
Illness	36	46*
Near Miss	23	
Property Damage	12	
Contamination by Radioactivity	2	0
Spill/Release	6	
Exposure	2	0
Other	6	0
Total Cases FYTD	109	53

\*Includes 42 work related COVID cases. OSHA requires workplace transmission of COVID to be recorded when other standard recording criteria are met (e.g., medical treatment beyond first aid, days away)

## Incident Trends: OSHA Recordables, TRC, DART (FY06-22)





### Injuries

Employee Strains Back While Lifting Pipe\* Employee Suffers Fractured Foot in Fall on Uneven Ground\* Employee Injured in Encounter with Campus Geese\* Employee Injured by Elevator Door Employee Cut Using Knife to Open Box\* Laceration to Three Fingers While Cutting Hose Fatal Fall from Height

### Illnesses

### 42 COVID workplace transmission cases\*

Employee experiencing neck and back pain teleworking\* Employee has heat rash/allergic reaction\* Employee experiences occupational hearing loss

### \*DART cases

## **COVID Protocol Changes**



### COVID-19 PROTOCOLS

- 1. Meet Daily Health Screening criteria.
- 2. Practice good hygiene.
- 3. Wear a mask when required following close contacts or recovery from COVID.

#### **DURING HIGH COMMUNITY LEVELS**

- Well-fitting mask use is required
- Social distancing is encouraged

#### **DURING MEDIUM COMMUNITY LEVELS**

- Mask use is prudent but optional
- Social distancing is encouraged

#### **DURING LOW COMMUNITY LEVELS**

- Mask use is prudent but optional
- Social distancing is optional

- COVID protocols are tied to CDC Community Levels; posted in buildings, on web pages
- Return to work following COVID infection protocols are based on CDC guidance
- Following close contacts, staff and visitors may enter campuses but must wear a better performing mask, practice social distancing, and self-monitor for symptoms (10 d)
- Staff encouraged to take appropriate precautions based on personal risk
- There are no occupancy restrictions
- NIST Gaithersburg offers COVID booster and flu shots to federal employees

## **COVID Case Management**



- New COVID reporting application for staff to obtain campus access requirements
- SCIRA allows us to monitor numbers of cases and work-related close contacts
- OSHA requires workplace transmission of COVID to be recorded when other standard recording criteria are met (e.g., medical treatment beyond first aid, days away)
- NIST determines whether COVID transmission is work related, e.g., exposed while on official travel or at-work, known close contacts



On-site	Gaithersburg	Boulder	Off-site work
COVID Cases	316	92	53
Work-related transmission	15	3	2

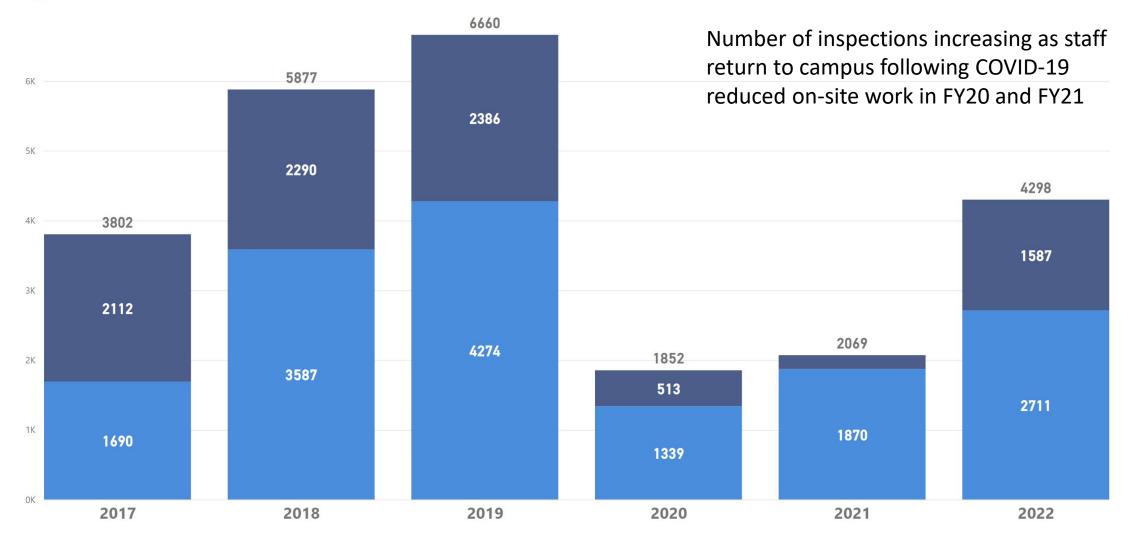
1,434 staff have reported testing positive for COVID-19

# Workplace Inspection Data

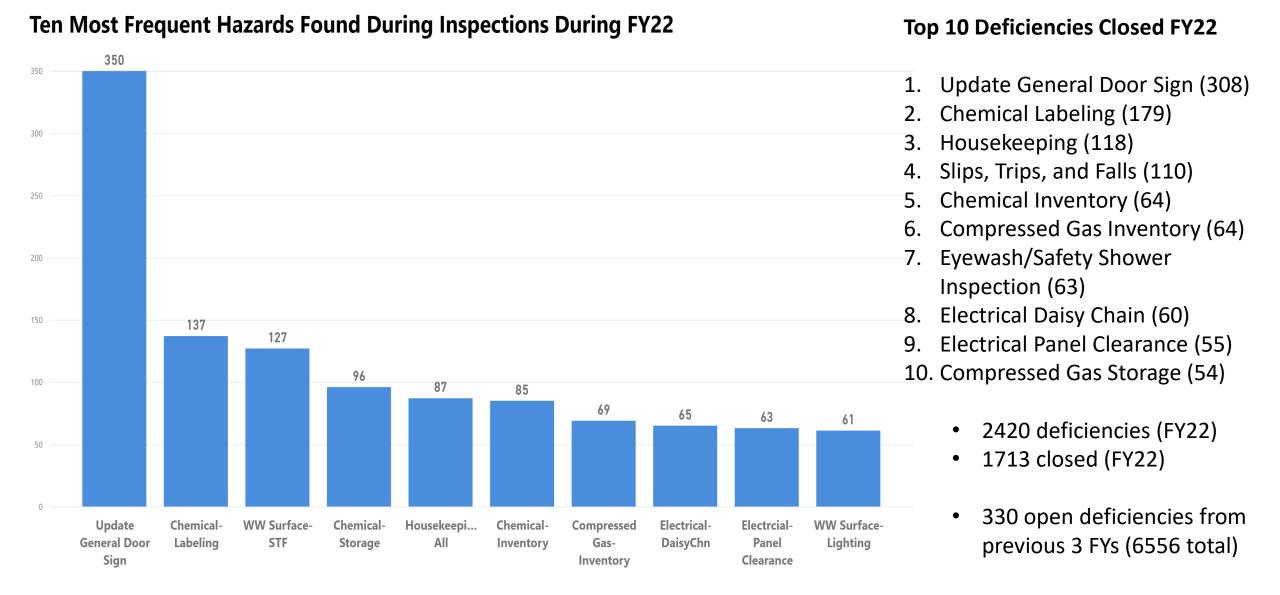


### **Inspections by Type**

Type • Non-Office • Office







# NCNR Support



- NCNR Director and CSO co-chair NIST NCNR Enforcement Actions Support Team; OSHE RSO serves as a member
- CSO *ex officio* position on the TR-5 Safety Evaluation Committee (SEC) by charter
- OSHE staff participation in SEC subcommittees
  - Qualification and Training Review
- OSHE safety embed in NCNR, position posted
- Participation in committees formed to meet CO
  - Safety Culture Program (CSO)
  - Employee Concerns Program (DCSO)



# **Safety Management System Directives**

NIST

FUNDAMENTAL SAFETY (Total, 15 programs)

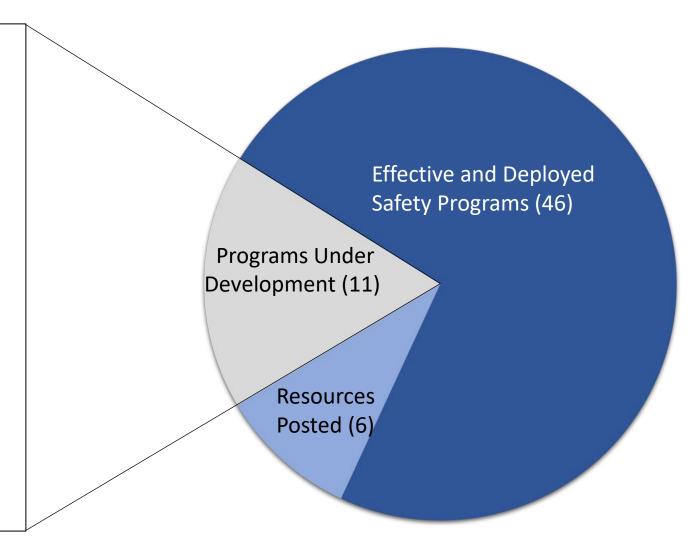
- Safety Culture
- Contractor Safety
- Monitoring Measurements and Assessments Change Management
- Corrective and Preventive Actions
- Documents and Records

TECHNICAL OCCUPATIONAL SAFETY AND HEALTH (Total 24 programs; 6 resource pages)

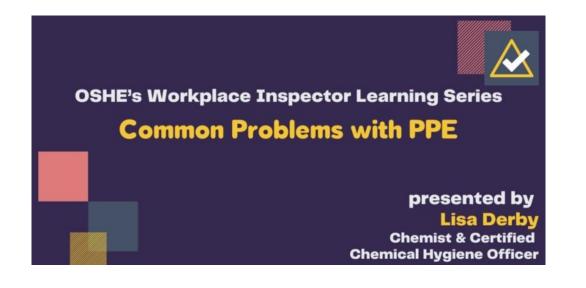
- Electrical Safety (Notice)
- Walking Working Surfaces (Resource)

ENVIRONMENTAL (Total 14 programs)

- Gaithersburg Wastewater
- Boulder Wastewater
- Stormwater Management



# Communications, Focus on Education and Incident Prevention



Workplace Inspector Series:

- Fire Safety Systems for Inspectors
- Walking and Working Surfaces Safety
- Hazardous Waste

Incident-related communications:

- Managers, subscribers notified of posted incidents
- New in FY22: Weekly incident summaries to NIST leadership, color coded for risk level
- Safety Minutes and videos focus on incident prevention (12 communications in FY22)



## **Communications, by the numbers**



13 Safety Minutes (65% open rate)

2 Safety Standard Newsletters (70% open rate)
8 Event notifications (70% open rate)
20 NIST announcements (68.5% open rate)

FY22 initiative to increase traffic to the NIST Safety Intranet: use up from 6,974 to 9,052 visitors and 345,047 to 380,942 pageviews







Safety Culture Program Implementation

- Formal Safety Culture Program approved by ESC October 2022
- Conduct Safety Culture Survey, industry benchmark (Planned Fall 2022)
- Executive Safety and Safety Advisory Committees develop an action plan

**Re-Evaluation of Job Hazard Reviews** 

- Ensure hazard controls are adequate, functional
- Ensure documentation reflects practice

Safety Management System

- Complete remaining directives
- External evaluation of SMS adequacy
- Improve safety data system tools

