



2012

Safety Progress Report



Hamilton County Facilities

Ralph Linne, MBA, BOC
Director

Rodney Lofland, CSP
Safety & Security Manager

Steve Sears
Safety & Security Specialist

Table of Contents

Executive Summary	3
Safety Program Vision Statement	3
Commitment to Safe Operations	3
2012 Safety Performance	4
2012 Safety Activity Highlights.....	5
A Look Ahead: Safety Agenda for 2013.....	6
Accident Prevention Programs and Procedures Development.....	6
Fire Prevention and Protection	8
Safety Inspections and Program Audits	8
Emergency Action Planning and Fire Evacuation Drills	8
Continued Commitment to a Safety Culture	9
Safety Progress Report	10
Purpose.....	10
I. Accident History Summary: 2009-2012	10
A. Injury and Claim Cost Totals.....	10
B. Injuries by Type and Body Area.....	11
C. Injuries by Job Classification.....	11
II. OSHA (PERRP) Compliance Activities 2012.....	12
A. Safety Inspections	12
B. Safety Programs	14
C. Safety Procedures.....	15
D. Safety Training.....	15
III. Emergency Action Planning & Drills	16
IV. Safety Project Requests & Safety Risk Assessment	17

Executive Summary

This Safety Progress Report summarizes the safety activity and accomplishments of calendar year 2012 for the Hamilton County Department of Facilities (HCDF).

Safety Program Vision Statement

The HCDF is committed to promoting a culture where safety is valued and considered an essential part of our operations. Our staff seeks the goal of “Zero Injuries” and believes it can be achieved through safety awareness, safe standard operating procedures, employee involvement, and training to develop safety-first attitudes and behaviors.

Our commitment to a safety culture seeks the protection of our employees, County property, and the safety of the public. Safety must be a team effort and considered everyone’s responsibility. Important stakeholders include our management team; trades and maintenance personnel; contractors; and service vendors. Each employee of the HCDF must work in compliance with the law, BOCC polices, County Risk Manual, and the safe work practices and procedures established by HCDF.

Commitment to Safe Operations

- HCDF recognizes our obligation to provide a safe and healthy work environment in compliance with Ohio Revised Code (ORC) 4101 *Safety in the Workplace*; ORC 4167 *Public Employee Risk Reduction Program (PERRP)*; and OSHA *General Industry & Construction Industry Standards* adopted by BOCC Policy 6.13 *Safety*.
- HCDF is actively involved in the health and safety of its employees.
- Prevention of injury or occupational disease is our continued objective.
- HCDF requires and encourages everyone to be dedicated to our goal of “zero injuries.”
- HCDF seeks to provide and maintain a working environment in compliance with the law, BOCC policies, and with safe work practices and procedures established by the Department.
- HCDF actively promotes and enforces safe work in and around HCDF managed facilities through both our written employee and contractor safety programs.
- HCDF is committed to being proactive and innovative towards our safety program, and to seeking continuous improvement within our safety culture.

Ralph Linne, MBA, BOC
Director

Rodney Lofland, CSP
Safety & Security Manager

2012 Safety Performance

The 2012 injury totals (*figure 1*) compiled for County Facilities showed a decrease in Total Injuries and OSHA/PERRP Recordable Injuries from 2011. The number of injuries resulting in days away from work and corresponding number of lost work days increased from 2011. However, Total Injuries, OSHA/PERRP Recordable Injuries, and Injuries Involving Days Away (Lost Time) have decreased year-over-year since 2009.

Workers Compensation costs, including medical treatment and compensation, increased from 2011. However, Total Injury Costs (*figure 2*) have decreased year-over-year since 2009.

Sprains and strains (stretching or tearing of ligaments, muscles, or tendons) accounted for 48% of all injuries - mostly to the knees, shoulders, and lower back (*figure 3*). 50% of those injuries occurred within the Maintenance classifications (Facilities Maintenance Worker; Maintenance Repair Worker), followed by 15% within the Carpenter classification; 13% within the Plumber classification; 7% within the Custodial classification; 7% within the Electrician classification; 4% within the Manager classification; 4% within the Plasterer classification; and none in the HVAC Tech classification (*figure 4*).

Figure 1 - Injury Totals

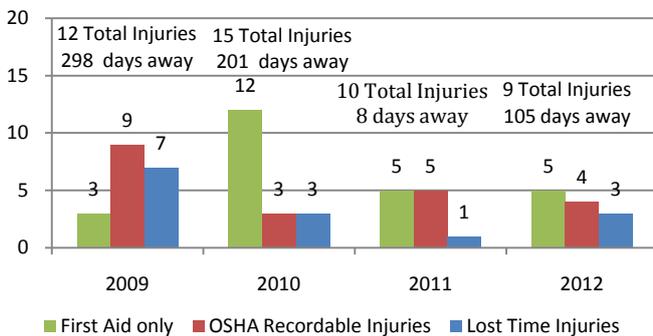


Figure 2 - Injury Claims Costs

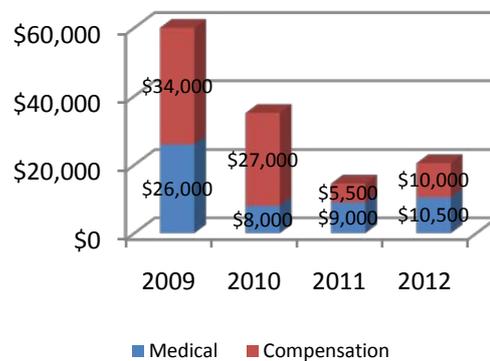


Figure 3 - Injuries by Type (2009-2012)

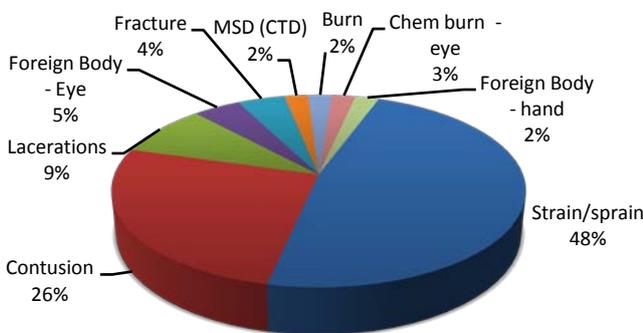
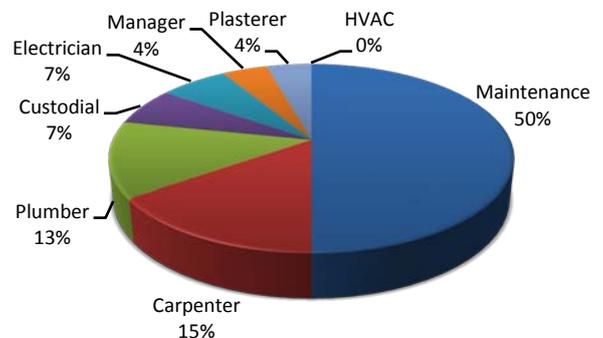


Figure 4 - Injuries by Work Class (2009-2012)



2012 Safety Activity Highlights

Evacuation Plans Developed or Updated:

- 230 E. 9th Street - William Howard Taft Law Center (plan updated)
- County Administration Building (new plan developed)
- 250 William Howard Taft Road (new plan developed)
- 800 Broadway Building (new draft plan developed)

Fire Drills / Emergency Evacuations Conducted:

- 138 East Court Street - County Administration Building
- 230 E. 9th Street - William Howard Taft Law Center
- 222 East Central Parkway - Alms & Doepke Building
- 800 Broadway
- Courthouse

Programs Implemented:

- Contractor Safety
- Electrical Safety

Procedures Implemented:

- Qualified Electrical Persons
- Aerial Lift Platforms – Safe Use, Maintenance, and Inspections
- Fire & Smoke Damper Inspections
- Confined Space Procedures – Youth Detention Center, 2020 Auburn Avenue

Safety Training:

DESCRIPTION	#ATTENDEES	DESCRIPTION	#ATTENDEES
Pesticides	12	Utility Cart Safety	5
Lockout-Tagout	64	Hazard Communication	58
Personal Protective Equipment	58	Confined Spaces	56
Forklift Safety	4	Aerial Platforms	47
Landscaping Safety	6	Respirators	50
Electrical Safety - Basic	68	Electrical Safety – Qualified	41
Fall Protection	53	Scaffolds - User	53
Fire Extinguishers	64	Scaffolds – Competent Person	9
Fire Prevention / Hot Work	45	Electrical Multi-Meter Safety	21
New Employee Orientation	5		

PERRP/OSHA Compliance Inspections

Third-party safety inspections were completed by the State of Ohio *Public Employee Risk Reduction Program (PERRP)* in August of 2012 and a safety consultant from Compliance Management, Inc. in December 2012. The inspections encompassed 10 buildings including the downtown main campus buildings and selected outlying facilities. A total of 218 safety concerns were identified. To date, 149 of the 218 safety concerns have been corrected. The remaining 69 are in progress of being completed or may require engineering services and/or capital expenditure (see Section IV).

PERRP/OSHA Compliance Progress

Significant progress has been made regarding compliance with OSHA regulations as required by Ohio Revised Code 4167 *Public Employment Risk Reduction Program (PERRP)*. Key programs such as Hazard Communication, Lockout-Tagout, Confined Space, Respiratory Protection, Bloodborne Pathogens, and Personal Protective Equipment have been and continue to be successfully implemented. Other critical new programs were also implemented in 2012 including an Electrical Safety/Qualified Electrical Persons Program for electrical shock and arc flash hazard protection for our personnel, and a Contractor Safety Program to ensure construction and retrofit projects involving contractors and vendors conducted on County-owned property are performed safely. Further, PERRP/OSHA-required safety training continued to be provided to reinforce safe work practices, safe attitudes, and to drive safe behaviors. This training is provided initially upon hire as part of new employee orientation, and thereafter on a monthly basis as part of our monthly safety training program. Training is also conducted as needed such as in the case of an accident, new materials or equipment, job transfer, or changes to a regulatory standard.

Emergency Action Planning and Fire Evacuation Drills

An emphasis on updating and/or developing emergency plans continued in 2012. New plans were developed for the County Administration Building (138 East Court Street) and 250 William Howard Taft Road Building, and the William Howard Taft Law Center (230 E. Ninth Street) plan was updated. ‘Announced’ fire evacuation drills were conducted at the County Administration Building and the William Howard Taft Law Center. ‘Unannounced’ and/or unplanned evacuations also occurred at 800 Broadway, William Howard Taft Law Center, Courthouse, and Alms & Doepke.

A Look Ahead: Safety Agenda for 2013

Accident Prevention Programs & Procedures Development

Fall Protection and Prevention: HCDF will focus on fall protection and prevention in 2013 including walking-working surfaces, elevated work, ladder work, and work involving scaffolds. Falls are one of the top 5 causes of workplace deaths in the US, as well as the second leading cause of disabling injuries and worker’s compensation costs according to Liberty Mutual’s 2012 Workplace

SAFETY PROGRESS REPORT - 2012

Safety Study. Accordingly, 5 of the 9 injuries to HCDF personnel in 2012 were the result of falls. In addition to the need of investigating and preventing falls to HCDF personnel, OSHA is scheduled to issue a final standard in October 2013 to update its Walking-Working Surfaces and Personal Protective Equipment Standards with the intent to reduce fall-related deaths and injuries and to incorporate new fall protection technology. In anticipation of this legislation, HCDF is seeking to incorporate those key provisions of the proposed changes into our fall protection procedures for maintenance and construction.

Ergonomics Awareness: HCDF will continue to provide ergonomics awareness training and strategic interventions to reduce overexertion injuries. Overexertion injuries have accounted for 48% of injuries and lost workdays in HCDF since 2009, primarily affecting the lower back, shoulders, and knee areas of the body. Understanding ergonomic risk factors and practicing basic ergonomic principles is the best defence against sprain and strain injuries.

Contractor Safety Program: Contractor safety management procedures and specifications will continue to be integrated into HCDF-managed projects to ensure that project safety is addressed, hazards are managed, and the corresponding risks reduced to prevent injuries, fatalities, property loss, or unfavorable publicity to the County. Contractor Safety Specifications for the management of the safety process will continue to be made a part of all construction bid documents prepared by HCDF and its design partners in 2013.

Electrical Safety Program: HCDF will continue to implement an effective Electrical Safety Program. Electrocutation is one of the top 5 causes of workplace deaths in the US. HCDF initially rolled out its new Electrical Safety Program in August 2011 following the completion of electric arc and shock hazard assessments in the downtown core buildings. In 2012, the HCDF *Qualified Electrical Person Procedure 4.13* was issued to apply this program, ensure compliance with the PERRP/OSHA requirements, and to provide training and information to workers to help them work safely around electrical equipment. OSHA states that only a “Qualified Person” is permitted to work on or near exposed energized parts and that a Qualified Person is “one who has received training in and has demonstrated skills and knowledge in the construction and operation of electric equipment and installations and the hazards involved.” Establishing “Qualified Person” status is mandatory for all individuals exposed to the hazards of electrical energy who are employed at Hamilton County Department of Facilities (HCDF).

Program Reviews & Updates: The HCDF Lockout-Tagout and Pesticides programs were updated in 2012 to reflect current standards and practice. Other critical safety programs issued in 2004-2007 will require update in 2013 to reflect changes in process, personnel, or industry and technology changes. These include the Contractor Safety Program, Respirator, Personal Protective Equipment, Confined Space, Bloodborne Pathogens, and Hazard Communication programs. We are also anticipating changes in the PPE and Hazard Communication standards in late 2013 and will incorporate those changes into our program updates.

Fire Prevention and Protection

Fire prevention and protection will be emphasized in 2013 including a focus on maintenance and testing of fire protection equipment, hot work, and construction impairments of suppression and detection systems. In 2012, procedures were developed for fire and smoke damper inspections and fire door inspections. In 2013, HCDF will develop and implement maintenance and testing procedures including *7.9 Sprinkler System Inspection, Testing and Maintenance*, and *7.10 Fire Alarm Inspection, Testing, and Maintenance*. Additionally, HCDF will develop a procedure for *Sprinkler and Fire Alarm System Impairments* which will include a tagging system in accordance with Ohio Administrative Code 1301:7-7-09 and Factory Mutual loss prevention recommendations.

Safety Inspections and Program Audits

PERRP Safety inspections will again be scheduled for 2013. The time frame for the safety inspections will be May 2013, with a follow up inspection in October 2013.

Program & procedures effectiveness audits will need to be performed for the Electrical Safety, Confined Space, Lockout/Tagout, Respiratory Protection, Hazard Communication, Personal Protective Equipment, and Bloodborne Pathogens Programs. The purpose of these audits is to ensure that safe procedures are being followed and that they are effective and workable in preventing accidents involving HCDF work.

Emergency Action Planning and Fire Evacuation Drills

Emergency action planning and drill execution will continue to be a top priority in 2013. The *Ohio Fire Code, Rule 4* (Ohio Administrative Code 1301:7-7-04) and *OSHA Code 29 CFR 1910.38 Emergency Action Plans* require the development of emergency plans and emergency evacuation drills. Our requirements under these codes call for an emergency procedure (evacuation and shelter for fire, severe weather, etc.) to be prepared for each of our facilities and to conduct two (2) evacuation drills per year - 1 announced; and 1 unannounced. It is important that each individual Department and area/floor know what to do when an emergency drill or an actual emergency event occurs. The complexity of the Hamilton County properties will require the full support of its various Departments and staff to successfully implement an overall Emergency Preparedness Program. To that end, the Facilities Safety and Security Manager will be working with the County Risk Manager to:

- Develop or revise building-specific emergency action/evacuation plans for the County's 7 main campus buildings and conduct fire evacuation drills. **For 2013, the buildings of focus will be the 800 Broadway and Courthouse Buildings.**
- Provide building tenants with emergency plan information and assist them with training and education regarding their building's emergency plan.
- Develop and submit final building emergency plans for each facility to the Cincinnati Fire Department for approval and plan of record with the city.

Continued Commitment to a Safety Culture

Continuous improvement to our safety culture will require continued leadership and commitment in 2013. The culture of safety that we seek is one in which safety is integrated and ingrained in every activity, work task, and project. Safe work must be the way we do business.

We believe a safety-first culture can be facilitated in the following ways:

- **Management and Employee Accountability:** Revise job descriptions to include safety goals and objectives as a job performance measure. Revise job performance reviews to also include specific safety measures as a measure of management effectiveness. These measures can include attending safety training, participating in safety inspections, conducting safety procedure audits, and ensuring the completion of safety training for all their employees. Clearly describe and ensure all employees understand what they are expected to do for safety. Provide specific standards for all work activities so that there can be meaningful measurement, evaluation, correction, or commendation of performance.
- **Management and Employee Involvement:** Promote the Safety Committee and ensure participation from both Managers and Employee Groups. Empower and guide the committee to tackle real safety issues and to make significant safety proposals that impact and strengthen the safety process.
- **Standard Operating (Safe) Procedures:** Standardize our activities through standard safe procedures that are developed upon assessments of recognized hazards and their elimination or reduction of risk. Use safe standard procedures to outline and standardize the best and safest way to do the work. Provide training that promotes safe behaviors and reinforces established safe procedures.
- **Training and Certification:** Ensure that the Safety and Security Manager maintains his certification as a *Certified Safety Professional* and encourage him to continue to expand his knowledge in safety practices and prevention.

-End of Executive Summary-

Safety Progress Report - 2012

Purpose

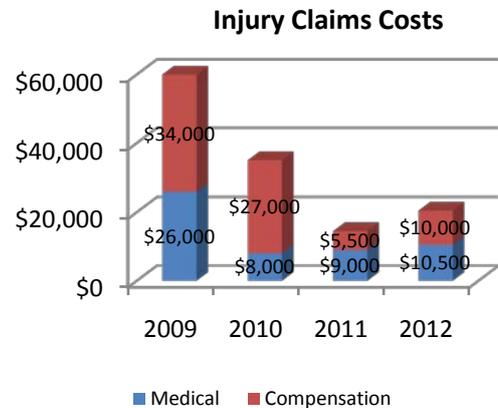
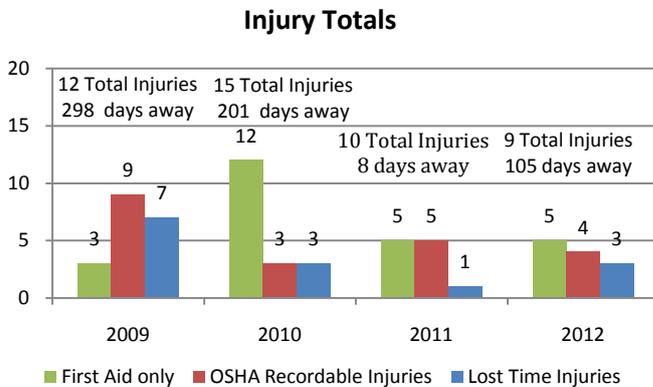
This Safety Progress Report summarizes the safety activity and accomplishments for calendar year 2012. The Director and the management staff of the Hamilton County Department of Facilities (HCDF) is committed to promoting a culture where safety is valued and considered part of how we conduct the business of serving our county customers. We believe our goal of “Zero Injuries” can be achieved through safety awareness, training, safe standard procedures, developing safe behaviors, and of course compliance with OSHA standards adopted by the ORC *Public Employee Risk Reduction Program (PERRP)*.

This report summarizes:

- I. Accident History Summary: 2009-2012
- II. OSHA (PERRP) Compliance Activities for 2012
 - A. Safety Inspections
 - B. Safety Programs
 - C. Safety Procedures
 - D. Safety Training
- III. Emergency Action & Evacuation Planning
- IV. Safety Project Requests & Safety Risk Assessment

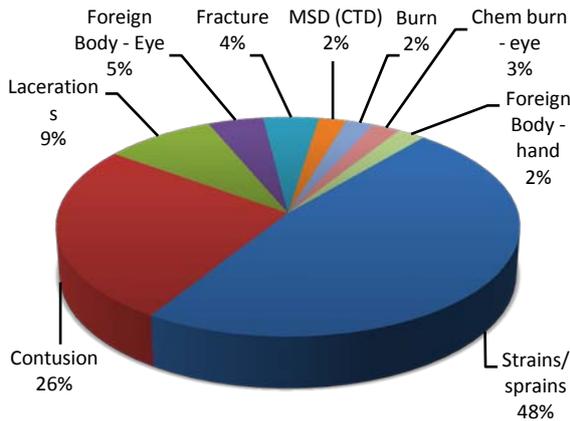
I. Accident History Summary: 2009-2012

A. Injury and Claims Cost Totals: A total of 46 injuries occurred in calendar years 2009-2012. The number of injuries resulting in days away from work and corresponding number of lost work days increased from 2011 along with a corresponding increase in injury claims costs. Overall, however, Total Injuries, OSHA/PERRP Recordable Injuries, Injuries Involving Days Away (Lost Time), and Injury Claims Costs have decreased year-over-year since 2009.

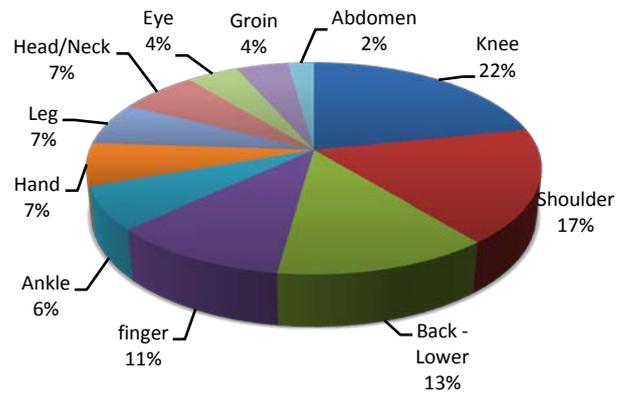


B. Injuries by Type and Body Area: Strains and sprains account for 48% of the 46 injuries from 2009 through 2012. Sprains and strains of the knee, shoulder, and lower back account for 52% of injuries from 2009-2012.

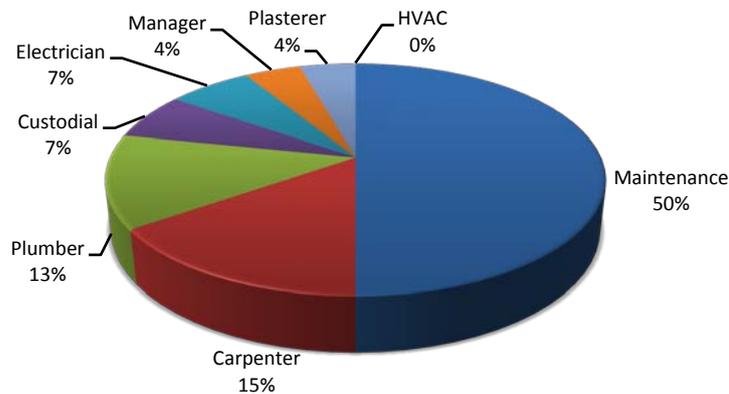
Injuries by Type (2009-2012)



Injuries by Body Area (2009-2012)



C. Injuries by Job Classification: The Maintenance classification accounted for 50% of the 46 injuries from 2009-2012.



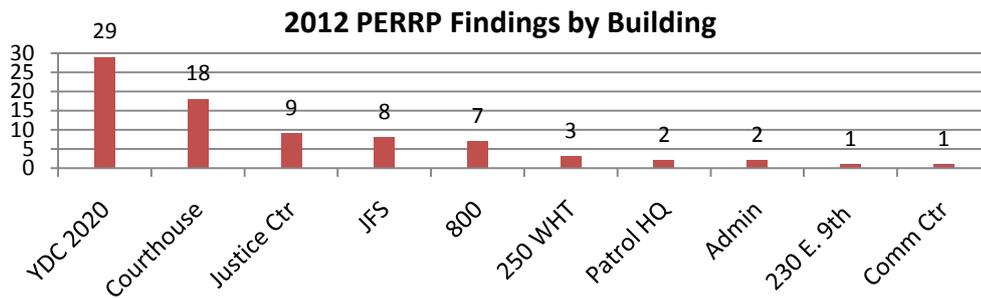
II. OSHA (PERRP) Compliance Activities 2012

A. Safety Inspections

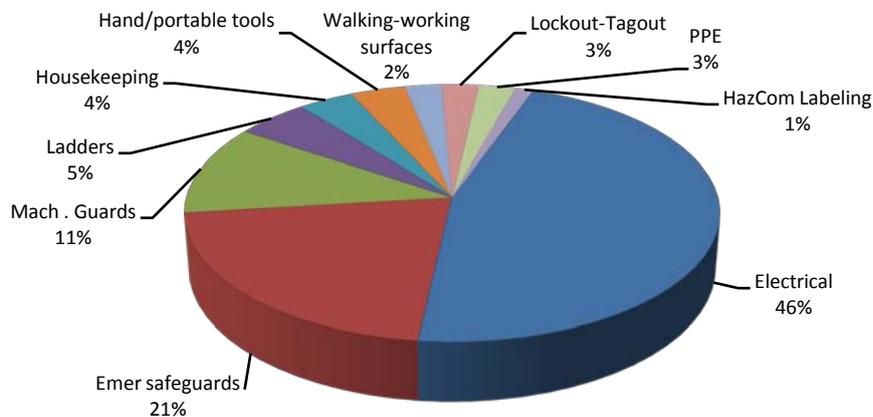
1. **PERRP Safety Inspections:** During July and August 2012, a PERRP Compliance Officer completed inspections of the following facilities:

- Administration Building
- Courthouse
- 230 WHT Center
- Justice Center
- 800 Broadway Building
- 250 WHT Building
- Communications Center
- Patrol Headquarters
- Youth Detention Center
- 222 East Central Parkway

PERRP Findings by Building: A total of eighty (80) safety concerns were observed. Seventy-seven (77) have been corrected, and 1 is in progress. The 2 other open items will require professional engineering services and/or may require capital expenditure. *See Section IV, items 28 and 29 of the Safety Project Requests Table.* The chart below shows the number of safety concerns identified in 2012 by building:



PERRP Findings by Type: The top three issues of the 80 safety concerns observed were: **1) Electrical** (damaged wiring or cords; exposed conductors in panels; improper use of temporary wiring; lack of equipment grounding); **2) Emergency Safeguards** (emergency egress; blocked sprinkler heads; emergency eyewash, emergency lighting); and **3) Missing or Improperly Adjusted Machine Guards** (bench grinders; equipment guards).

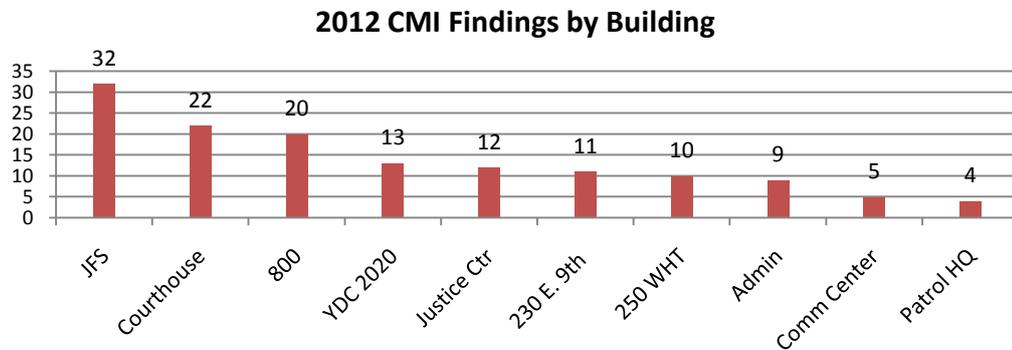


SAFETY PROGRESS REPORT - 2012

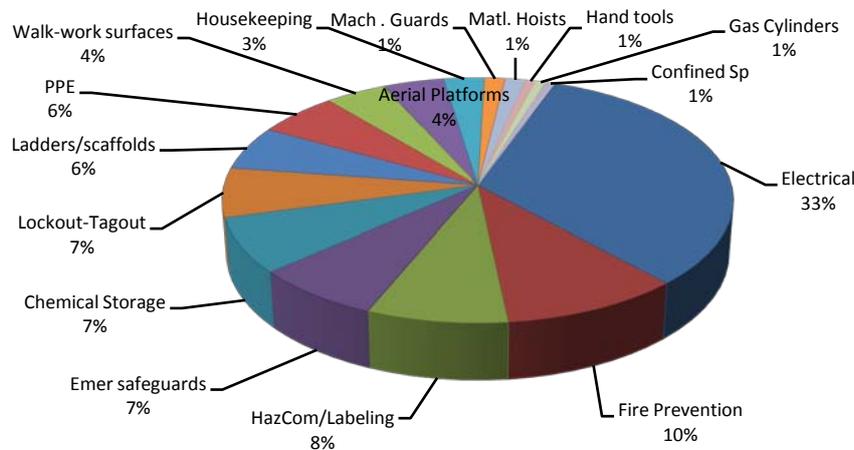
2. **CMI Safety Inspections:** During November and December 2012, a safety consultant from Compliance Management, Inc. (CMI) conducted safety audits in the following facilities:

- Administration Building
- Courthouse
- 230 WHT Center
- Justice Center
- 800 Broadway Building
- 250 WHT Building
- Communications Center
- Patrol Headquarters
- Youth Detention Center
- 222 East Central Parkway

CMI Findings by Building: A total of 138 safety concerns were observed. Of these, 72 have been corrected. The remaining 66 items are in progress. The chart below shows the number of safety concerns identified in 2012 by building:



CMI Findings by Type: The top 3 issues of the 138 safety concerns observed were: **1) Electrical** (damaged wiring or cords; exposed conductors in panels; improper use of temporary wiring); **2) Fire Prevention** (designated hot work areas; fire extinguishers); and **3) Hazard Communication** (container labelling, MSDS binder updates).



B. SAFETY PROGRAMS: Development and Current Status

The following safety programs are in place, being developed, or were audited for effectiveness in 2012:

Program	Code	Status	Audited?
Hazard Communication	29 CFR 1910.1200	In Effect	Yes – will need updating to reflect new changes in 1910.1200 and Global Harmonized System
Lockout-Tagout	29 CFR 1910.147	In Effect	Yes – required by code. Work practice audit performed; written plan updated
Confined Space	29 CFR 1910.146	In Effect	Yes – required by code
Respiratory Protection	29 CFR 1910.134	In Effect	Yes – will be updated in 2013
Bloodborne Pathogens	29 CFR 1910.1030	In Effect	Yes – will be updated in 2013
Fork Truck	29 CFR 1910.178	In Effect	Yes
Personal Protective Equipment	29 CFR 1910.132	In Effect	No; Will be updated in 2013
Electrical Safety Program Energized Electrical Work Permit	29 CFR 1910.332	New Electrical Safety Program implemented including arc flash safety and NFPA 70e	Yes
Hot Work Program	29 CFR Subparts E, H, L, M, N, Q, R, S, Z	In Effect	Yes
Contractor Safety	Best Practice	In Effect	Yes – will be updated in 2013 to reflect changes in OSHA Standards
Pesticides	Ohio Department of Agriculture OAC 901:5	In Effect	Yes – practices audited and written plan updated

C. SAFETY PROCEDURES: Developed or Implemented in 2012

- Hot Work Procedure (update)
- Emergency Action Plan for 230 E. 9th Street (update)
- Emergency Action Plan for County Administration Building
- Emergency Action Plan for 250 William Howard Taft – Environmental Services
- Contractor Safety Specification (implement)
- Aerial Work Platform Procedure
- Electrical Safety Program (implemented)
- Qualified Electrical Person
- Fire/Smoke Damper Inspections Procedure
- Fire Door Inspection Procedure
- Equipment Holdout Procedure

D. SAFETY TRAINING 2012

Safety training was delivered to all maintenance and trades groups between January and October of 2012 on the following topics:

MONTH	TOPIC	CODE
January	Pesticide Safety Training Utility/Golf Cart Safety	Ohio Pesticide Law – OAC 901:5 29 CFR 1910.178
February	Lockout-Tagout	29 CFR 1910.147
March	Hazard Communication Personal Protective Equipment	29 CFR 1910.1200 29 CFR 1910.132
April	Confined Space – including use of meters Forklift Safety	29 CFR 1910.146 29 CFR 1910.178
May	Landscaping Safety / equipment Aerial Work Platforms	29 CFR 1910 29 CFR 1910 Subpart F
June	Respiratory Protection	29 CFR 1910.134
July	Electrical Safety – Qualified Persons Electrical Safety - Basic	1910.331-335 ; NFPA 70E
August	Fall Protection Scaffolds user training	1910 Subpart D 1926 Subpart M, L
September	Fire Extinguisher Training / Hands-on Scaffolds – 8-hour Competent Person	29 CFR 1910.157 29 CFR 1926.454
October	Fire Prevention / Hot Work Electrical Meter Testing Safety	29 CFR Subparts E, H, L, M, N, Q, R, S, Z 29 CFR 1910.36; 37 29 CFR 1910.332(b)

III. Emergency Action Planning & Drills

An emphasis on updating and/or developing emergency plans continued in 2012. New plans were developed for the County Administration Building (138 East Court Street) and 250 William Howard Taft Road Building. The William Howard Taft Law Center plan at 230 E. Ninth Street was updated. ‘Announced’ fire evacuation drills were conducted at the County Administration Building and the William Howard Taft Law Center. ‘Unannounced’ and/or unplanned evacuations also occurred at 800 Broadway, William Howard Taft Law Center, Courthouse, and Alms & Doepke.

2012 EMERGENCY PLANNING & DRILL EXECUTION

Building	Evacuation/ Shelter Floor Plans Updated?	Written Plans Prepared/ Updated	2012 Fire Evacuation Drills Performed ¹
Administration 138 E. Court Street	Yes	Yes	10/2/12 (unannounced)
WHTLC 230 E. Ninth St.	Yes	Yes	4/25/12 (announced drill) 8/7/12 (false alarm – unannounced) 10/3/12 (unannounced)
Courthouse 1000 Main Street	Reviewing		6/20/12 (false alarm - unannounced)
Alm & Doepke 222 E. Central Parkway	Reviewing due to construction changes	Yes	10/11/12 (false alarm - unannounced)
250 WHT 250 William Howard Taft Rd.	Yes	Yes – need to incorporate Health Dept, 2 nd floor	
800 Broadway 800 Broadway	Reviewing	In progress	8/2/12 (false alarm - unannounced) 8/8/12 (false alarm - unannounced) 11/21/12 (false alarm - unannounced) 11/21/12 (false alarm - unannounced)
Justice Center 1100 Sycamore Street	Reviewing		

- Hamilton County Risk Management Policy calls for two (2) drills per year – one to be unannounced (Section 6.600 and 6.601).

IV. Safety Project Requests & Safety Risk Assessment

The following table beginning on page 18 provides an overview of safety-related issues identified through third-party inspections and in-house investigations. These items have been submitted for projects requiring engineering design and/or capital expenditure. Those highlighted in yellow are funded and scheduled to be completed in 2013.

Priority has been given to each item in the table based upon whether it is a code violation or upon the perceived risk using a simple risk rating system as shown below. Specific Code violations and ‘high risk’ items are given top priority in regards to project planning.

System Used to Determine Risk

Step 1 – Consider the Consequences What are the potential consequences of this risk event? CONSEQUENCE		Step 2 – Consider the Likelihood How likely is the risk event and consequence in step 1 to happen? LIKELIHOOD		Step 3 - The calculated risk score is where the two ratings cross on the matrix below.					
Consequence Personal Damage		Likelihood Description		LIKELIHOOD					
				Unlikely	Possible	Likely	Almost Certain		
Catastrophic	Extensive injury or death	Unlikely	The event may occur, but probably never will.	CONSEQUENCE	Catastrophic	MED	HIGH	EXTRM	EXTRM
Major	Medical treatment	Possible	The event could occur, but only rarely		Major	MED	MED	HIGH	EXTRM
Medium	First aid treatment	Likely	The event could occur at some time		Medium	LOW	MED	MED	HIGH
Minor	No treatment	Almost Certain	The event is expected to occur in most circumstances		Minor	LOW	LOW	MED	MED

Safety Project Requests

Issue / Project	Consequence	Likelihood	Risk	Estimated Cost
1) Fall Protection: Administration Roof fall protection around cooling tower	Catastrophic	Possible	High	\$26,624
2) Fall Protection: Alms & Doepke Building Roof	Catastrophic	Possible	High	\$46,819
3) Fall Protection: Alms & Doepke Chiller Room AHU-B1 overhead access	Major	Likely	High	\$34,105
4) Fall Protection: 800 Broadway Cupola Roof	Catastrophic	Possible	High	\$36,401
5) Fall Protection: Courthouse Pipe Chases	Catastrophic	Possible	High	\$338,785
6) Fall Protection: Courthouse Boiler Room Work Platform	Major	Possible	Medium	\$38,454
7) Fall Protection: Justice Center Roof Equipment	Catastrophic	Possible	High	\$85,284
8) Electrical Arc Flash Assessment: Engineer's Garages	Catastrophic	Possible	High	\$17,514
9) Electrical Arc Flash Assessment: Sheriff Heliport	Catastrophic	Possible	High	\$7,955
10) Electrical Arc Flash Assessment: Parkhaus Garage	Catastrophic	Possible	High	\$8,310
11) Electrical Arc Flash Assessment: Youth Detention Center	Catastrophic	Possible	High	\$21,105
12) Electrical Arc Flash Assessment: Coroner's Office	Catastrophic	Possible	High	\$12,084
13) Electrical Arc Flash Assessment: Records Center	Catastrophic	Possible	High	\$8,310
14) Asbestos Study: Administration Building	Code Violation	CHRONIC	Code violation	\$21,994
15) Asbestos Study: Alms & Doepke	Code Violation	CHRONIC	Code violation	\$19,938
16) Asbestos Study: 230 E. Ninth Street	Code Violation	CHRONIC	Code violation	\$20,854
17) Asbestos Study: Hillcrest School	Code Violation	CHRONIC	Code violation	\$24,091
18) Asbestos Study: 250 William Howard Taft	Code Violation	CHRONIC	Code violation	\$12,666
19) Asbestos Study: 800 Broadway	Code Violation	CHRONIC	Code violation	\$26,450
20) Asbestos Study: Courthouse	Code Violation	CHRONIC	Code violation	\$39,613

Safety Project Requests --continued

Issue / Project	Consequence	Likelihood	Risk	Estimated Cost
21) Asbestos Study: Patrol HQ	Code Violation	CHRONIC	Code violation	\$17,020
22) Asbestos Study: Justice Center	Code Violation	CHRONIC	Code violation	\$19,196
23) Asbestos Study: Memorial Hall	Code Violation	CHRONIC	Code violation	\$14,947
24) Asbestos Study: Juvenile Detention Center	Code Violation	CHRONIC	Code violation	\$17,054
25) Asbestos Study: Comm Center	Code Violation	CHRONIC	Code violation	\$12,822
26) Asbestos Study: Coroner's Office	Code Violation	CHRONIC	Code violation	\$17,538
27) Asbestos Study: Records Center	Code Violation	CHRONIC	Code violation	\$14,014
28) Overhead Storage Floor Load Capacity Rating: 800 Broadway Boiler Rm	Medium	Possible	Medium	Submitted for Est.
29) Stair Landing Railing: 800 Building Southeast Stairwell	Catastrophic	Unlikely	Medium	Submitted for Est.
30) Electrical Arc Flash Assessment: Communications Center	Catastrophic	Possible	High	\$12,550
31) Electrical Arc Flash Assessment: Memorial Hall	Catastrophic	Possible	High	\$9,488
32) Electrical Arc Flash Assessment: Public Works Garages	Catastrophic	Possible	High	\$10,999
33) Fall Protection: Coroner Roof Equipment	Catastrophic	Possible	High	\$97,994
34) Fall Protection: Patrol Headquarters Roof Equipment	Catastrophic	Possible	High	\$118,525
35) Fall Protection: Communication Center Roof	Catastrophic	Possible	High	\$18,802
36) Fall Protection: Public Works Garage	Catastrophic	Possible	High	\$11,246
37) Courthouse Emergency Generator: Emergency Power for Boilers/Chillers	Minor	Possible	Low	\$1,640,943
38) Bird/Dropping Control System: Courthouse	Major	Possible	Medium	\$1,137,306
39) Shower Room Refurbish for Mold Control: Youth Detention Center	Medium	Likely	Medium	\$573,589
40) Exterior Cleaning, Bird Droppings: Courthouse	Major	Possible	Medium	\$535,019
41) Fire Alarm System Upgrade: 250 William Howard Taft, 1 st Floor	Catastrophic	Possible	High	\$61,507