

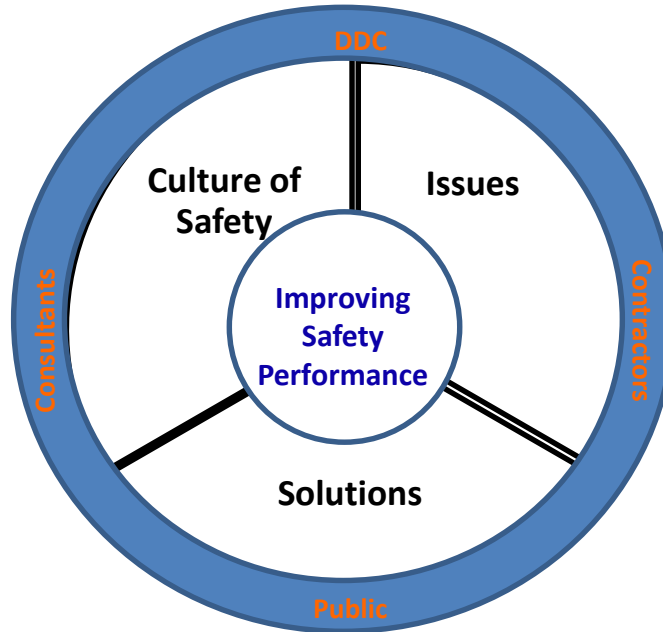
DDC Safety Summit 2016

THINK SAFETY!

Department of
Design and Construction

Dr. Feniosky Peña-Mora
Commissioner

**The New York City Department of Design and Construction's mission:
To deliver the city's construction projects in a safe, expeditious, and cost-effective manner while maintaining the highest degree of architectural, engineering, and construction quality.**



DDC PROJECTS SAFETY PERFORMANCE

“By The Numbers”

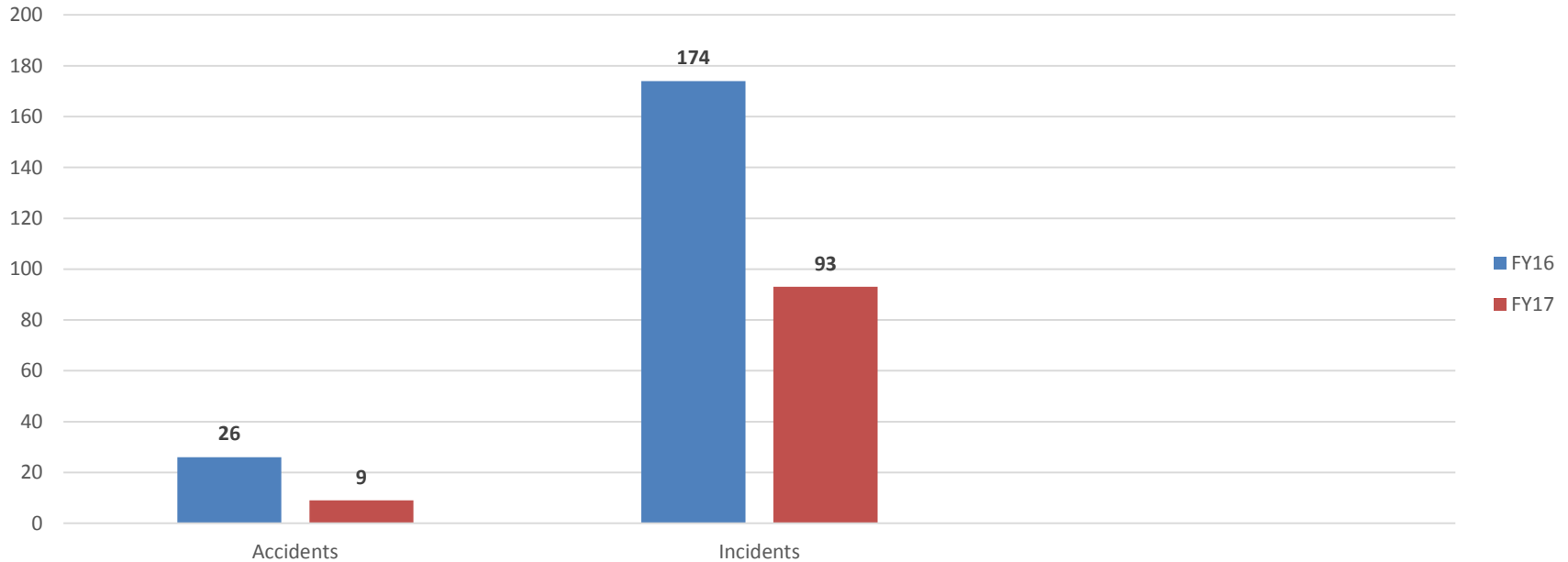
DEFINITIONS

The definition of incident and accident, is defined within the DDC, as:

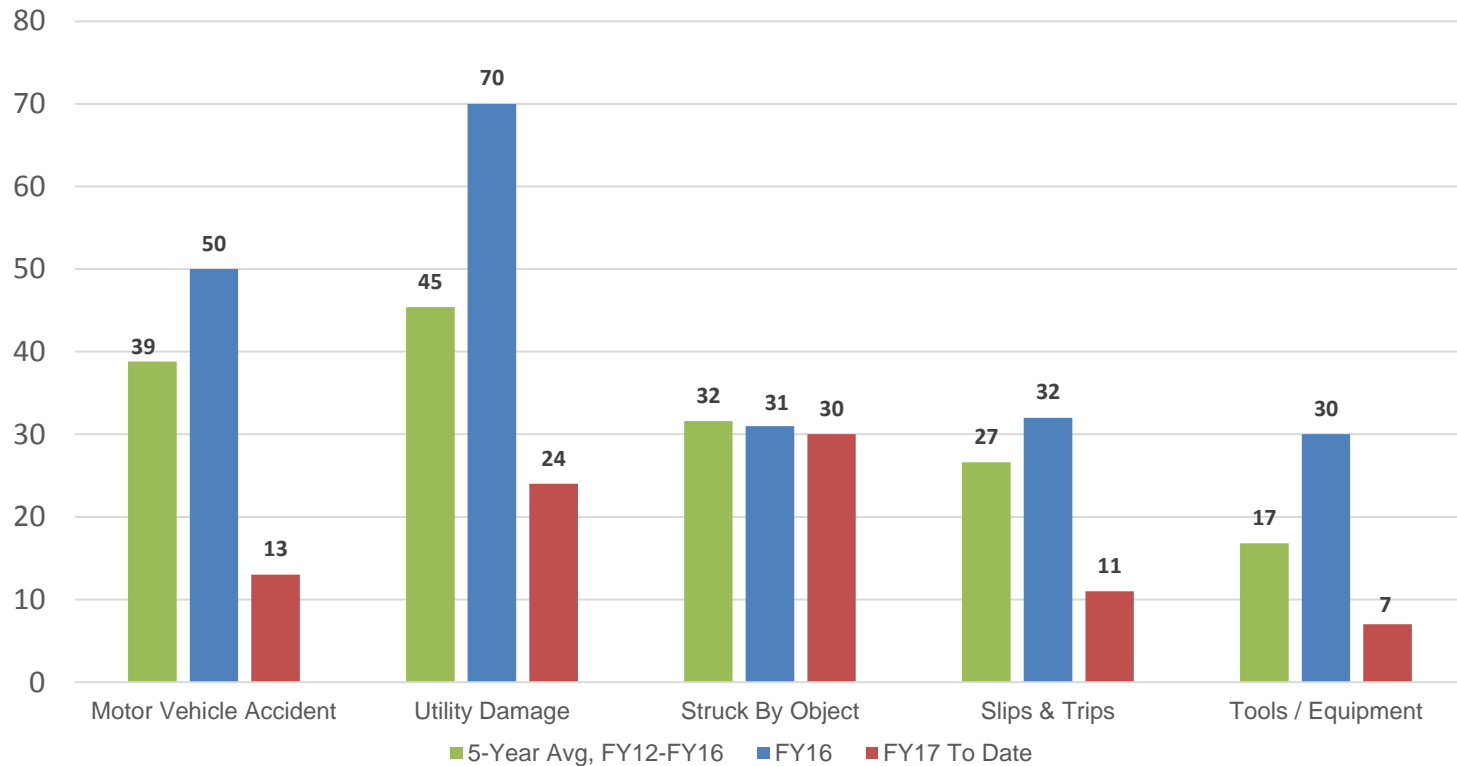
- **Incident** – An unplanned event (work related) that results in personal injury requiring first aid or property damage.
- **Accident** – An unplanned event (work related) that results in personal injury that involves medical treatment beyond first aid.

ACCIDENTS & INCIDENTS

Fiscal Years 2016 & 2017

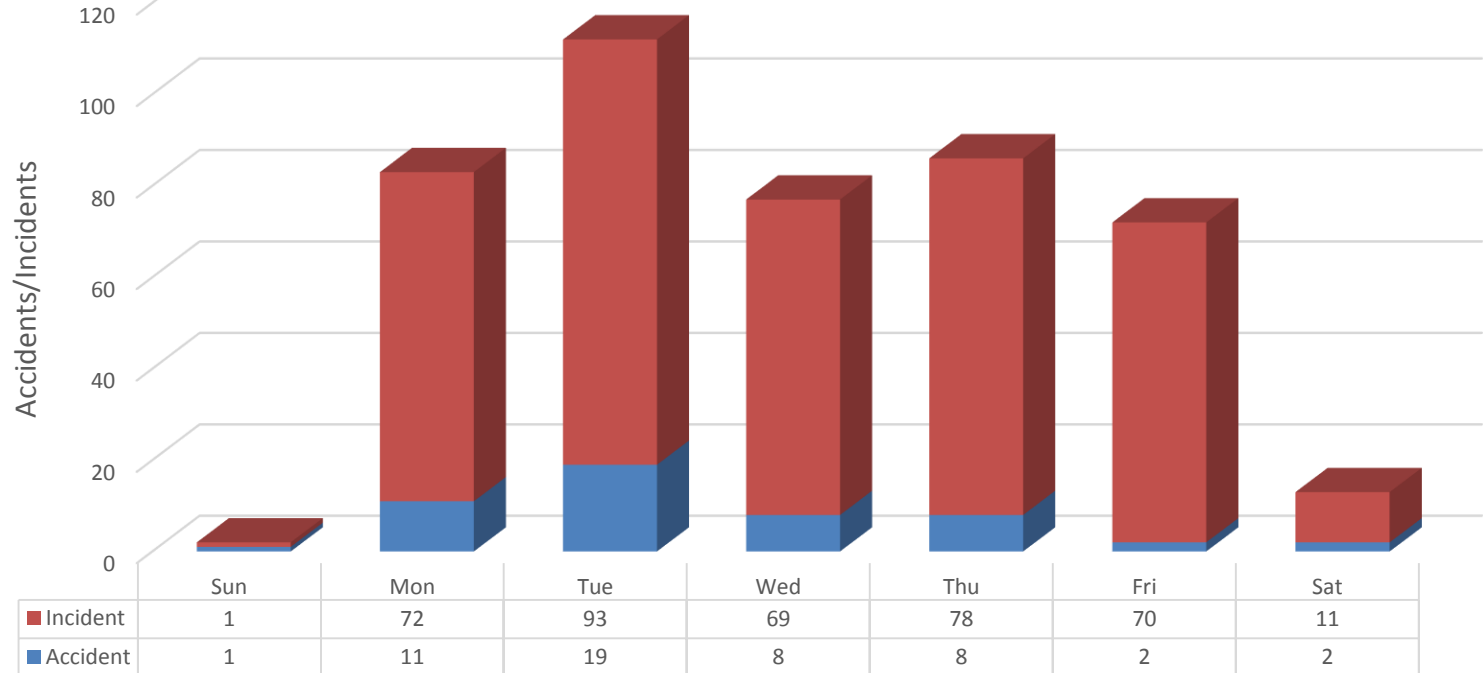


TOP 5 CAUSES



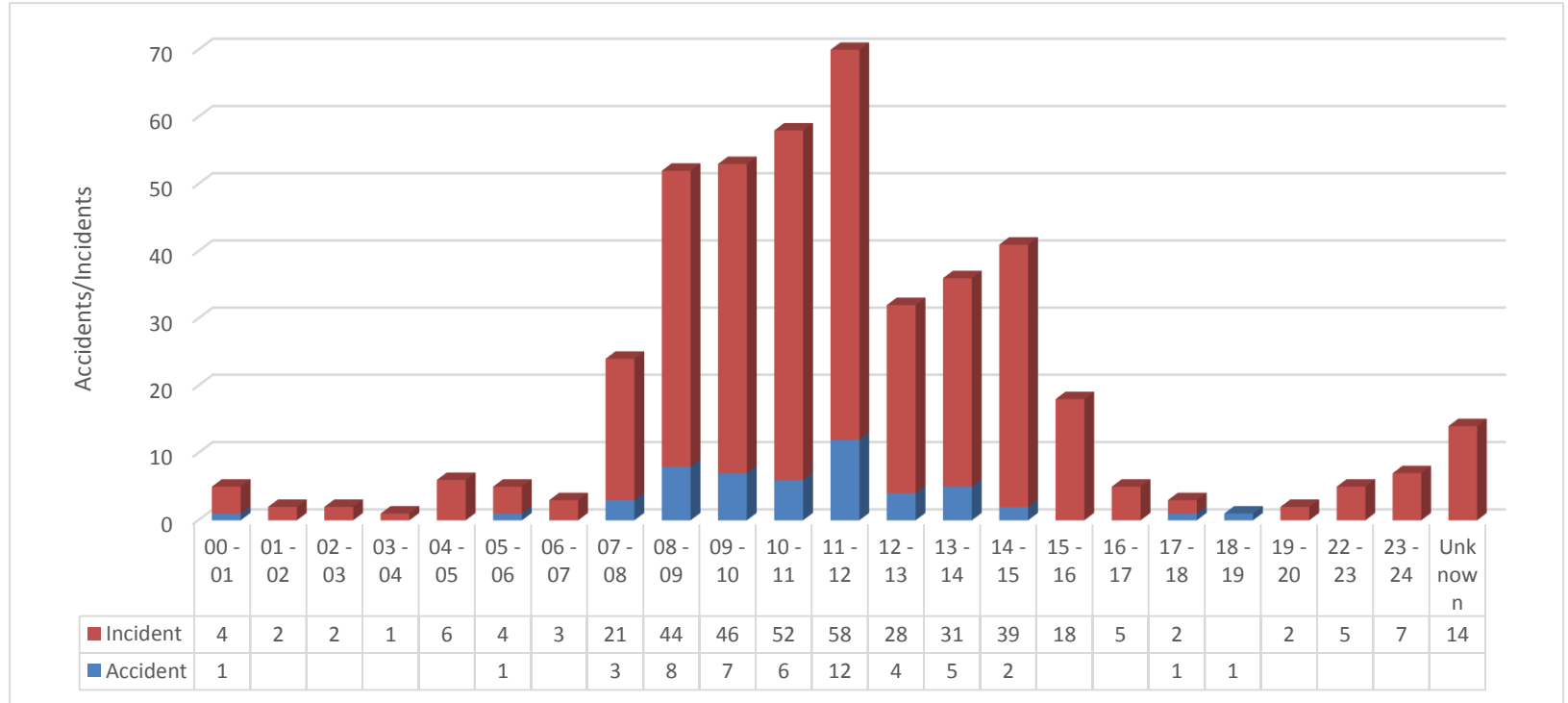
ACCIDENTS & INCIDENTS BY DAY OF WEEK

Calendar Year 2015 & 2016 Combined



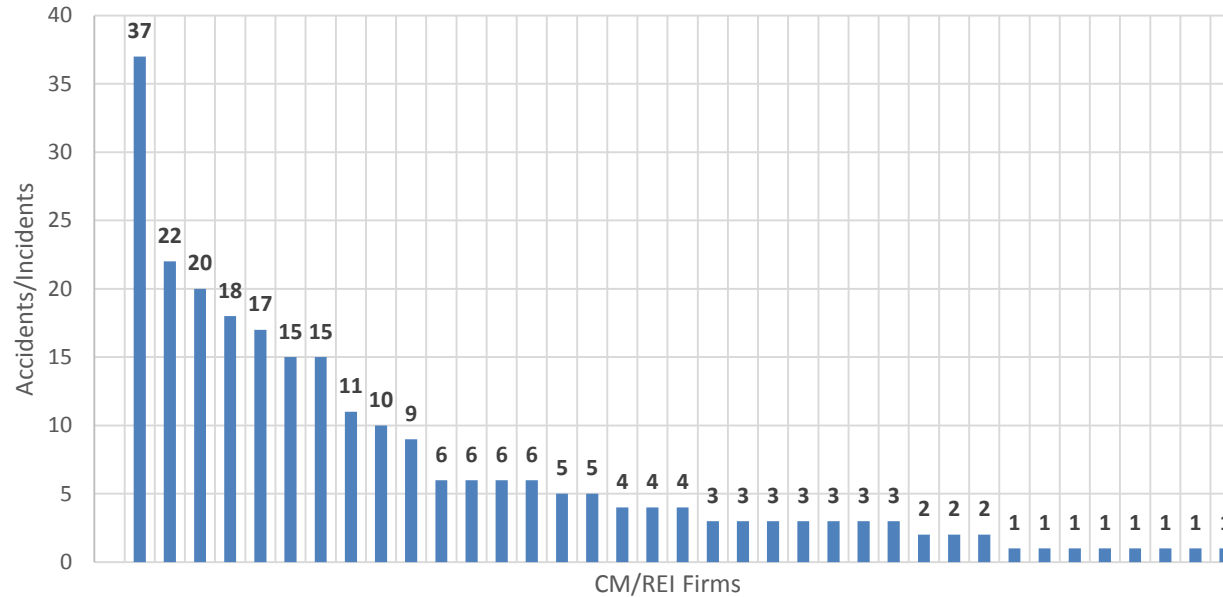
ACCIDENTS & INCIDENTS BY HOUR

Calendar Year 2015 & 2016 Combined



CM/REI MANAGED PROJECTS ACCIDENTS/INCIDENTS

Fiscal Year 2016 - 2017



CONTRIBUTING FACTORS OF ACCIDENTS OR INCIDENTS

- APATHY
- COMPLACENCY
- ROOTED INEFFECTIVE SAFETY CULTURE
- LACK OF FOCUS
- LACK OF/OR IMPROPER PPE
- LACK OF/OR INSUFFECIENT TRAINING
- LACK OF OVERSIGHT

CM/REI MANAGED PROJECTS SAFETY FINDINGS

Six (6) comprehensive audits (field and record reviews), performed by the DDC over the previous 3 months, revealed the following common safety findings associated with CM/REI projects:

- 3 out of 6 projects – Incomplete/missing JHAs for construction work observed during audits;
- 4 out of 6 projects – Incomplete/missing weekly safety meetings (no names and/or signatures of attendees);
- 5 out of 6 projects – Housekeeping and PPE issues;
- 4 out of 6 projects – Fire safety issues (missing or not inspected fire extinguishers);
- 2 out of 6 projects – MPT issues (no flaggers, MPT plan was not followed).

CURRENT CM/REI'S SAFETY PERFORMANCE

QA&CS audits and investigations revealed:

- Missing or Lack of
 - records of weekly safety meetings and daily safety job briefings;
 - permits, drawings, plans, and approvals;
 - training and certification records for assigned CM personnel, contractors' and subcontractors' employees.
- Missing or inadequate contractors' and subcontractors' task specific written JHAs;
- Unacceptable contractors' Safety Program/Site Safety Plan;

CURRENT CM/REI'S SAFETY PERFORMANCE

(continued...)

- Insufficient planning of critical construction activities including:
 - crane operation
 - excavation (protective system)
 - confined space entry
 - fall protection
 - scaffold and sidewalk shed installation, etc.
- Failure to identify hazardous conditions or ensure implementation of adequate corrective actions;
- Failure to adhere to the DDC Construction Safety Emergency and Accident Notification and Response Procedure.

RECORDING ACCIDENTS & INCIDENTS

- Notification of all incidents and accidents shall be made telephonically, within 2 hours of the occurrence, as required by the DDC Construction Safety Emergency and Accident Notification and Response Procedure.
- DDC Project Staff, CMs or REIs are required to notify QA&CS of all incident and accidents.
- The notifications are logged when received for subsequent follow-up and trending.

A full-page background image with an orange tint. It shows two construction workers in hard hats and safety vests paving a sidewalk. One worker is using a jackhammer to break up old pavement, while the other is using a shovel. In the background, a crowd of people is walking behind a metal barricade. A large white cross is visible on a building in the background. A sign above the workers reads "Times Square Pedestrian Plaza DESIGNATED ACTIVITY ZONE".

DISCUSSION

Department of
Design and Construction

DDC PROJECTS SAFETY PERFORMANCE

SAFETY APPROACH ...

DDC SAFETY APPROACH

- The DDC safety approach was established to promote successful leadership and a positive safety culture at all DDC project sites.
- Construction Management (CM) and Resident Engineering and Inspection (REI) firms are expected to recognize, minimize or eliminate jobsite and public hazards, through planning, inspection, verification, and corrective action processes.

DDC SAFETY APPROACH *(continued...)*

➤ Foundation of a Safe Project begins with:

- Adherence to **DDC Contract Safety Requirements;**

<http://www1.nyc.gov/assets/ddc/downloads/publications/guides-manuals/Contract-Safety-Requirements.pdf>

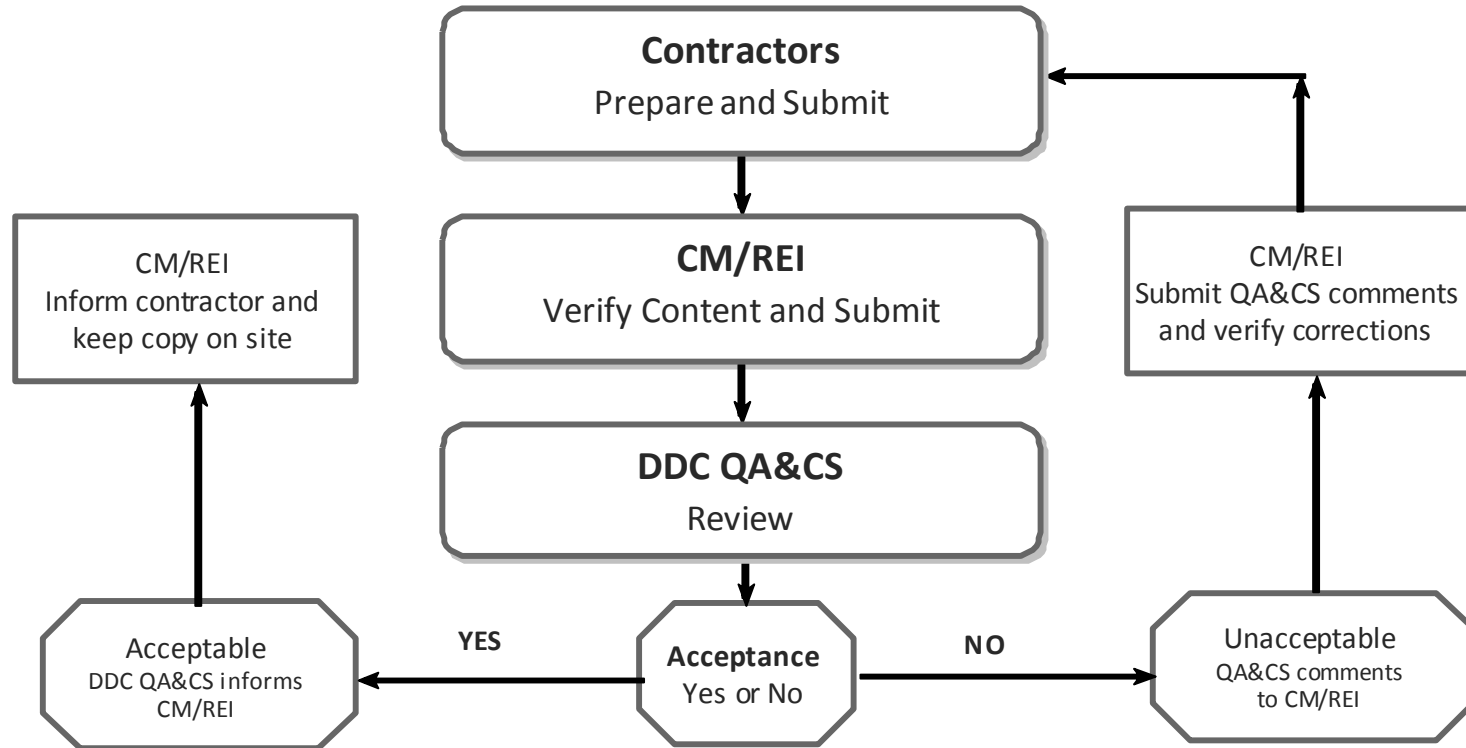
- Development and submittal of an acceptable contractors **Safety Program and Site Specific Safety Plan;**
- And a well developed written **Job Hazard Analysis (JHA).**

➤ Each builds upon the other to create a “net” of safety for our employees, contractors/consultants and the general public.

SAFETY PROGRAM AND SITE SAFETY PLAN

- Within thirty (30) days from the Award Date, or as otherwise directed, the Contractor shall submit the following:
(1) Safety Program, and (2) Site Safety Plan.
- The Safety Program and the Site Safety Plan are subject to review and acceptance by the Construction Safety Unit prior to the commencement of work at the site. Failure by the Contractor to submit an acceptable Site Safety Plan and Safety Program shall be grounds for default.

SAFETY DOCUMENTS SUBMITTALS



SAFETY PROGRAM AND SITE SAFETY PLAN

(continued...)

The **Safety Program** and **Site Safety Plan** shall contain specific elements that shall determine acceptability.

Examples are:

Safety Program

Organization and Responsibilities
Safety Training Program
Hazard Corrective Actions
Accident/Exposure Investigation
Protection of Underground Utilities
Recording and Reporting Injuries

Site Safety Plan

Work Scope
Responsibility and Organization
Safety Training and Education
Job Hazard Analysis (JHA)
Hazard Corrective Actions
Accident/Exposure Investigation

SAFETY PROGRAM AND SITE SAFETY PLAN

(continued...)

Shortcomings of Safety Programs and Site Safety Plans :

- Missing and/or incomplete sections, forms, submittal of safety regulations instead of company safety procedures, outdated information.
- Not company and/or project specific; responsible personnel for implementation of safety program and site safety plan is not identified; do not reflect construction activities conducted by contractor or outlined in project work scope; submittal of general procedures instead of project specific and company specific.

JOB HAZARD ANALYSIS (JHA)

- A JHA identifies hazards before they occur, focusing on the relationship between the worker, the task, tools and work environment.
- A JHA is a **living document** that must be re-evaluated and revised to address new hazards that may develop and shall be present at the worksite and produced upon request.

JHA SHORTCOMINGS

- All project specific work tasks, hazards and control methods not identified;
- Project ID, location, contractor's name not provided;
- Date of JHA development not provided;
- Name and signature of the certifying person missing.

A photograph of three construction workers on a site, overlaid with a blue and orange color gradient. The workers are wearing hard hats and safety gear. One worker is pointing upwards towards a large, bright orange light source. The word "DISCUSSION" is written in large, white, bold, sans-serif capital letters across the center of the image.

DISCUSSION

Department of
Design and Construction

DDC PROJECTS SAFETY PERFORMANCE

WHERE WE WANT TO BE...

DDC SAFETY EXPECTATIONS AND CM/REI'S ROLE

CM and REI firms must proactively comply with the responsibilities of DDC Contract Safety Requirements, prior to commencement of and during the work activities by:

- Providing certified and/or trained CM/REI personnel;
- Reviewing and facilitating contractor Safety Program and Site Safety Plan submittals;
- Developing, implementing, and maintaining a contractors' training and certification verification process, to ensure:
 - New employee training requirements and site orientation;
 - Task specific training, certification, and refresher training;
 - Minimum OSHA 10 Hour Construction Industry training;

DDC SAFETY EXPECTATIONS AND CM/REI'S ROLE

(continued...)

- Ensuring a JHA(s) is in place, project specific, and available at the site. Documented training was conducted on the JHA(s). Training documentation shall be available at the site;
- Ensuring that contractors and subcontractors conduct weekly safety meetings and daily jobsite briefings. CM/REI shall attend and document;
- Ensuring compliance with DDC Contract Safety Requirements, and all applicable regulations that pertain to construction safety;

DDC SAFETY EXPECTATIONS AND CM/REI'S ROLE

(continued...)

- Escorting and assisting DDC Safety Auditors during field and record inspections;
- Notifying contractor(s) and DDC of any conditions that do not comply with the Site Safety Plan, federal, state, local regulatory codes, and pose a hazard to employees or the general public;
- Recognizing, minimizing or eliminating jobsite and public hazards through planning, inspection, verification, and corrective action process;

DDC SAFETY EXPECTATIONS AND CM/REI'S ROLE

(continued...)

- Providing timely notification of project-related accidents and incidents as per DDC Construction Safety Emergency and Accident Notification and Response Procedure and:
 - Ensuring that the integrity of accident/incident site is not compromised;
 - Safeguarding of evidence;
 - Gathering of facts and documentation (have available upon request);
 - Performing accident or incident investigation;
 - And preparing DDC Construction Accident Report.
- Notifying the Construction Safety Unit within two (2) hours of the start of an inspection by any outside regulatory agency or authority personnel and forwards a copy of the inspection report within three days of its receipt.

CLOSING STATEMENT

When the CM/REI is actively engaged and takes a proactive approach in addressing potential and real time safety issues at the work site, the result is a safe work environment for employees and the general public.



NEXT STEPS...

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