



# Safety - Introduction

- ❖ Disclaimer: The following slides are NOT all inclusive of the safety requirements required by the Federal, State, local governments, the contract or MWAA's Construction Safety Manual (CSM), Revision 17.
- ❖ The following slides only serve as an overview for some of the safety requirements of the CSM. Be sure to read your contract and the CSM.
- ❖ Link to CSM below:

[http://www.mwaa.com/sites/default/files/safety\\_manual-rev17.pdf](http://www.mwaa.com/sites/default/files/safety_manual-rev17.pdf)



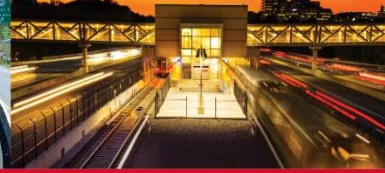
# Safety – Pre-Start

- ❖ Pre-start Required Subcontractor Information Package Checklist (PRSIPC) MUST be completed prior to the start of work.
- ❖ PRSIPC must be signed acknowledging that the contractor has read and understands the Airports Authority's Construction Safety Manual (CSM). CSM Must be followed by the contractor and their subcontractors.
- ❖ Emergency Contact names and numbers for senior Company managers (Include President, Project Manager and Safety Director).
- ❖ Experience Modifier Rate (EMR)- If EMR is 1.0 or greater, submit the OSHA 300 logs for the past three (3) years, plus the current calendar year. Additionally, create and submit a Safety Mitigation Plan addressing the safety issues that the contractor has identified from the OSHA logs mentioned above.



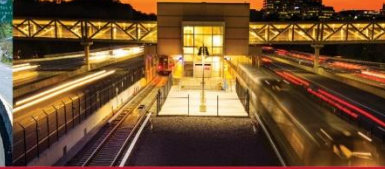
# Safety – Pre-Start

- ❖ Safety and Health Program – to include Site Specific Safety program to the general contractor. Examples include but not limited to the following:
  - Confine Spaces, Electrical,
  - LOTO,
  - Hazard Communication Program,
  - Erection and or Lifts
  - Site Specific Fall Protection,
  - Respiratory,
  - Demolition Plans,
  - Substance Abuse Program,
  - Return to Work/Light Duty Program (mandatory),
  - Emergency Response



# Safety – Pre-Start

- ❖ Safety Data Sheets (SDS) and Site Specific Chemical Inventory List (Separate binders)
- ❖ Documentation of employee training on company letterhead which includes the employees signatures for the following topics:
  - Fall Protection
  - Equipment Operation
  - Hazard Communication
  - General Construction Safety
  - Operators Of Heavy Equipment
  - Confined Space (if applicable)
  - Scaffold training (if applicable)
  - Powder actuated tools (if applicable)



# Safety – Pre-Start

- ❖ Definable Features of Work- List to be submitted along with Job Hazard Analysis (JHA) for all known work activities.
- ❖ JHAs to be prepared on the Pre-Task Work Plan (PTWP) Form in Appendix E of CSM. JHAs required prior to any work on-site. Be very detailed on this plan.
- ❖ Contractors duty to prevent jobsite accidents
- ❖ Contractor and ALL their subcontractors required to enroll in the Owner Controlled Insurance Program (OCIP).
- ❖ OSHA 30 Hour Construction certification required for supervisors. One 30 Hour OSHA trained employee per subcontractor must be on site at all times. All workers are required to have 10 hour OSHA construction training (provide copies of cards for all of the aforementioned).





# Safety-Pre-Start

- ❖ CPR/First Aid Qualified Personnel, Certification cards must have expiration date (provide copy of each CPR/First aid trained person).
- ❖ List of Competent Persons per OSHA definitions. Provide Contact numbers and credentials for each. Provide training certificates/documentation for each competent employee.
- ❖ List of Equipment to be used on site (update as needed). All equipment must Identify owner company. Provide training records.
- ❖ Cranes: provide annual inspection, Certified Crane Operators Card(s), Riggers training and certification card. Signalman training and certification card, Lift Plan and Erection Plan (provide copies).
- ❖ Fork lifts (including rough terrain), Powder Actuated, Boom & Scissor lifts authorization cards/list. Provide training records.



# Safety-Preparatory

- ❖ 10 and 30 hours OSHA certification must be obtained within 6 months of Notice to Proceed (NTP)
- ❖ Contractor must develop a safety plan that is site specific and follows the guideline set forth in Appendix C of the CSM.
- ❖ Safety Plan must be submitted and approved prior to the start of any work.
- ❖ Safety Professionals- Submit resumes for review and candidate for interview . SM has the final approval/disapproval of candidate.
  - Safety engineers- Required for the Project/shift. Must have 5 yrs. Of continuous construction experience relevant to the work being performed (dual roles will not be accepted). Perform daily inspections of contractors and subcontractor's job sites.
  - Safety Managers- A full time on-site safety Professional with a minimum 10yrs of experience managing safety programs on large construction projects. Monitors efforts of Safety Engineers and performs administrative duties set forth in the CSM and OCIP manuals.



# Safety-Preparatory

- **The contractor shall provide adequate safety coverage if the approved safety engineer or safety manager is “absent” or “for any other reason”. Therefore, additional safety professionals must be pre-approved to cover safety staffing requirements.**
- On-site work may not be performed until the specified safety professional(s) is/are approved and present on-site.
- Controlling contractor or sub tier contractors who have over 30 working employees working shall have a dedicated safety engineer.
- Safety personnel can only work on one project at a time.





# Safety- Reporting

- ❖ Metropolitan Washington Airports Authority (Airports Authority) shall require the contractor and their subcontractors to preplan their work activities on a daily basis. Prior to the actual start of work, the foreman shall conduct a Pre-Task Work Planning (PTWP) meeting with the work crew performing the work.
- ❖ Job Hazard Analysis/ Activity Hazard Analysis (JHA/AHA) required for each Definable Feature of Work (DFOW).
- ❖ Report unsafe conditions immediately to the Project Safety Manager (PSM).
- ❖ ALL injuries , Incidents, Near misses are to be reported immediately to the PSM.
- ❖ Written incident reports are to be submitted to the PSM within 24 hours.
- ❖ Monthly man-hour report must be submitted by the 10<sup>th</sup> of each month.



# Safety- Cranes

- ❖ Critical lifts are any lift exceeding 75% of the rated capacity of the crane or 1 involving two or more cranes.
- ❖ Lift plans shall be submitted for review to the PSM prior to any crane lift.
- ❖ Chains are prohibited for lifting.
- ❖ Crane mats must be a minimum of 9 square feet for cranes of 50 tons or less.
- ❖ Cranes with a capacity greater than 50 tons will use the following formula for determination of the crane pad size..  $\text{Capacity of the crane} / 5 = \text{area of crane pad}$ .



# Safety-Excavations

- ❖ Prior to excavation a preplanning meeting will take place with the Airports Authority
- ❖ Prior to excavation ALL utilities must be identified in an area 5 feet beyond the intended area of excavation. Look in manholes and for other clues.
- ❖ Contractor will use the Excavation checklist (appendix F)
- ❖ MWAA requires protection of excavation starting at **4 feet** in depth.
- ❖ Benching, sloping, trench boxes all permissible.
- ❖ Means of egress must not be more than 25 ft. from employee at any point in the excavation.



# Safety-Excavations

- ❖ Competent person shall inspect the excavation /trench prior to anyone entering excavation.
- ❖ Competent person shall be at the excavation/trench site while work is being performed.
- ❖ If using a trench box, tabulated data shall be submitted to the Airports Authority COTR and reviewed by the PSM. Trench box data shall be stamped by a PE.
- ❖ Excavation spoils and equipment operating next to an excavation shall be a minimum of 2 feet away from the leading edge.
- ❖ Trenches/excavations 4 feet and greater require atmospheric monitoring



# Safety-Fall Protection

## Policy Statement

Metropolitan Washington Airports Authority (Airports Authority) Fall Protection Policy requires 100% fall protection when employees are exposed to a fall hazard six (6) feet or greater. There will be a zero tolerance for not being 100 % tied off over 6 feet. Contractors working on an Airports Authority project installing and using fall protection systems shall be in compliance with 29 CFR 1926, Construction Industry Regulations, Subpart M - Fall Protection in addition to the following procedures and requirements





# Safety- Fall Protection

- ❖ All fall protection systems shall not be over 5 years (depending on manufacturer) of the manufacturers issue date or service date by the contractor (documentation required).
- ❖ Employees shall be protected from falling objects by the installation of toe boards, barricades, snow fence, mesh or canopy structure.
- ❖ All persons on scaffolding are required to use PFAS and tie off.



## Safety- Misc. Req.

- ❖ MOT- Prior to performing construction, maintenance, or other work activities along the Dulles Toll Road (DTR), Dulles International Airport Access Highway (DIAAH) and/or other connecting arterial roadways supporting vehicle conveyance at DCA or IAD a Traffic Control Plan shall be developed.
- ❖ MOT- ANSI Class 3 high-visibility clothing is required on all Airports Authority construction projects and roadway maintenance operations
- ❖ TOOLS- No cartridge style nail guns, nor any tool that uses a cartridge or any explosive charge, shall be permitted in public areas, unless authorized by Airport Operations / Security.



# Safety- Misc. Req.

- ❖ GENERAL-Personal electronic devices prohibited .
- ❖ EMERG-Contractors shall follow NOAA weather alerts
- ❖ HOT WORK- A Fire watch is required during operations and for **30 minutes after completion of welding/cutting unless otherwise specified by the fire marshal** or other hot work operations.
- ❖ HOT WORK- (2)A:(20)B:C rated fire extinguisher is required where work is being performed. No combustibles within 35 feet of Hot work unless an approved cover is used.
- ❖ Flash arrestors are to used at both the regulator and torch ends of the hose.



## Safety- Misc. Req.

- ❖ HOUSEKEEPING- Housekeeping shall be maintained as an integral part of every work operation. It's the controlling contractor's responsibility to conduct routine housekeeping inspections of their project.
- ❖ PPE- Contractors shall establish a "Glove Protection Policy" appropriate to the hazards identified by specific task(s).
- ❖ PPE- Gloves will be required at all times when working on Airports Authority construction sites. Gloves worn to be selected on basis of hazard
- ❖ PPE- Employees shall wear full length chaps (e.g. Kevlar) or the equivalent, wire mesh face shield, leather gloves, safety goggles, Steel/composite toed boots and hearing protection when operating a chain saw.



# Safety-Fines

## NCN Violation Fine Schedule

### AOA & NON- AOA Safety Violations

|                                                                                                     | Fine                   |
|-----------------------------------------------------------------------------------------------------|------------------------|
| 1. Incursion of Aircraft                                                                            | \$5,000 per occurrence |
| 2. Encroachment of RSA                                                                              | \$5,000 per occurrence |
| 3. Violation of not having flagging operations on active runways                                    | \$1,000 per occurrence |
| 4. Failure to follow MWAA Utility Locating Procedures                                               | \$1,000 per occurrence |
| 5. Violation of MWAA Excavation Policy                                                              | \$5,000 per occurrence |
| 6. Exposure to Live Electrical Parts / Not Following MWAA LOTO Procedures or NFPA 70 E Requirements | \$5,000 per occurrence |





# Safety- Fines, Cont'd

|                                                                                 |                        |
|---------------------------------------------------------------------------------|------------------------|
| 7. Violation of MWAA Confined Space Procedures & Policies                       | \$1,000 per occurrence |
| 8. Violation of MWAA Fall Protection Policy                                     | \$2,000 per occurrence |
| 9. Violation of Escort Procedures on the AOA                                    | \$1,000 per occurrence |
| 10. Violation of Airport Security Policies & Procedures                         | \$1,000 per occurrence |
| 11. Violation of MWAA Fire Prevention Procedures/Hot Work Policies & Procedures | \$1,000 per occurrence |
| 12. Violation of MWAA Crane Policies & Procedures / FAA Requirements            | \$7,000 per occurrence |



# Safety-Fines, Cont'd

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|------------------------------------------------------------------------|------------------------|
| 13. Violation of not providing safety representation on the job site   | \$1,000 per occurrence |
| 14. Violation of not following and maintaining MOT Plan                | \$500 per occurrence   |
| 15. Violation of creating an imminent danger situation                 | \$7,000 per occurrence |
| 16. Violation of MWAA Scaffolding Policy                               | \$1,000 per occurrence |
| 17. Violation of MWAA Material Handling Policy                         | \$500 per occurrence   |
| 18. Violation of MWAA Safety Construction Manual Policies & Procedures | \$500 per occurrence   |