Construction, Safety, Quality Control Standards

Philip Stavrides – Chief of Construction
US Army Corps of Engineers
Chicago District
Monday, 18 May 2020

"The views, opinions and findings contained in this report are those of the authors(s) and should not be construed as an official Department of the Army position, policy or decision, unless so designated by other official documentation."

BUILDING STRONG®

US Army Corps of Engineers ®

U.S.ARMY

Contract Compliance

- Cardinal Rules – Keeping it simple, there are only 2!
  - Safety
  - Quality

Safety

- Safety is the #1 Priority for all Corps Activities

  - Step 1: Create a Safety Program:
    - UFGS 01 35 26
    - EM 385-1-1 (Nov 2014)

  - Step 2: Implement Safety Program:
    - Accident Prevention Plan (APP)
    - Activity Hazard Analyses (AHA)

  - Step 3: Review of Safety Program:
    - Site Safety and Health Officer (SSHO)

Activity Hazard Analysis (AHA)

Activity/Work Task: _____	Overall Risk Assessment Code (RAC) (Use highest code)					
Project Location:	Risk Assessment Code (RAC) Matrix					
Contract Number: _____	Severity	Probability				
Date Prepared: __/__/____		Frequent	Likely	Occasional	Seldom	Unlikely
Prepared by (Name/Title): _____	Catastrophic	E	E	H	H	M
	Critical	E	H	H	M	L
Reviewed by (Name/Title): _____	Marginal	H	M	M	L	L
	Negligible	M	L	L	L	L
Notes: (Field Notes, Review Comments, etc.)	Step 1: Review each "Hazard" with identified safety "Controls". Determine RAC (See above)					
	Probability: likelihood the activity will cause a Mishap (near miss, incident or accident). Identify as Frequent, Likely, Occasional, Seldom or Unlikely.	RAC Chart				
	Severity: the outcome if a mishap occurred. Identify as Catastrophic, Critical, Marginal, or Negligible	E = Extremely High Risk H = High Risk				
	Step 2: Identify the RAC (probability vs. severity) as E, H, M, or L for each "Hazard" on AHA. Annotate the overall highest RAC at the top of AHA.	M = Moderate Risk L = Low Risk				
Job Steps	Hazards	Controls			RAC	
1. 2.	1. 2.	1. 2.			1. 2.	
Equipment to be Used	Training Requirements & Competent or Qualified Personnel name(s)	Inspection Requirements				

BUILDING STRONG®

US Army Corps of Engineers®

U.S.ARMY

Tips to an Effective Safety Program

- Understand the Scope of Work
- Follow APP format presented in EM 385-1-1, Appendix A
- Engage with the field workers
- Make the APP site specific and a useful reference guide

Quality

- Read the Specifications!!
- Key Player is the Contractor's Quality Control System Manager (CQCSM)
- Key Submittal is the Quality Control Plan (QCP)
- Key resource is the Project Specification – section 01 45 00.00 (ish)

Quality

- QC system is more than one person!
- See the Experience Matrix in the spec for additional required personnel.
- Submittals are certified by the CQCSM
- Three Phase Control:
  - Preparatory Phase
  - Initial Phase
  - Follow-Up Phase

Miscellaneous

- Billing
  - Set up billings via schedule (SDEF format)
  - QCS no longer in use, download RMS 3.0 – use Contractor Mode!
  - Sworn Statement is a legal certification
  - Pencil Review

Questions ???

Chicago District

www.lrc.usace.army.mil

BUILDING STRONG®

US Army Corps of Engineers

U.S.ARMY