

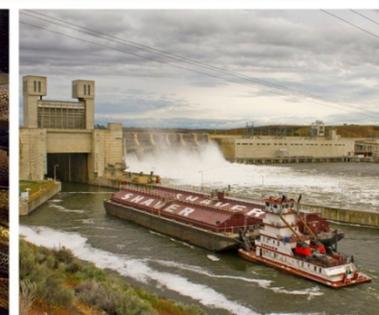
SAFETY PROGRAMS

Robert N. Reid, ASP

Safety Specialist

NWW District Safety Office

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Agenda

- Federal Acquisition Regulations (FAR) Clause
- EM 385-1-1 Section 1 – Program Management
- Site-Specific Accident Prevention Plan (APP)
- Risk Management
- Training
- Site Safety & Health Officer (SSHO)
- Mishap Reporting
- High Hazard Areas



FAR Clause 52.236-13

- Accident Prevention Clause
- Contained in all Construction Contracts

“if this contract is for construction or dismantling, demolition or removal of improvements with any Department of Defense agency or component, the contractor shall comply with all pertinent provisions of the latest version U.S. Army Corps of Engineers Safety and Health Requirements Manual EM 385-1-1 in effect on the date of the solicitation.”



EM 385-1-1 Section 1

- Provides a blueprint of how safety programs are to be structured
- Some requirements exceed OSHA standards



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Accident Prevention Plan (APP)

- Required for all contracts
- Appendix A of EM 385-1-1 contains minimum outline for APP
- Should be job specific
- Must be reviewed and accepted by the GDA
- District Safety Office often consults with GDA to ensure compliance with EM 385-1-1



U.S. Army Corps of Engineers Safety Inspection Checklist Abbreviated Accident Prevention Plan			Date of Inspection	
Location (Plant or Facility)	Contract Number			
Contractor Name	Project Name			
Inspector Name (Print)	Inspector Signature			
<p><i>This checklist serves as a guide only. It does not replace or eliminate the need to comply with the requirements set forth in Engineering Manual 385-1-1, Safety and Health Requirements Manual, dated XX September 2014. The references included in this checklist correspond to the applicable sections of EM 385-1-1.</i></p> <p><i>If service, supply and R&D contracts with limited scopes are awarded, the contractor may submit an abbreviated Accident Prevention Plan. This APP shall address the following areas at a minimum. If other areas of the EM 385-1-1 are pertinent to the contract, the contractor must assure these areas are addressed as well.</i></p>				
Item Description	Yes	No	N/A	Remarks (Any NO or N/A Item)
1. Signature sheet				
a. Includes the name, signature, and title of the Plan Preparer (Qualified person, i.e. corporate safety staff person, QC)				
b. Includes the name, signature, and title of the Plan Approver (e.g. owner, company president, regional vice president)				
c. Includes the name(s), signature(s), and title(s) for Plan Concurrence (provide concurrence of other applicable corporate and project personnel(contractor))				
2. Background information				
a. Includes the Contractor Name.				
b. Includes the Contract Number.				
c. Includes the Project Name.				
d. Includes the Brief Project Description.				
e. Includes the Location of the Project (map).				
f. Includes a means to evaluate the work being done (see AHA requirements in 01.A.13) and associated hazards involved.				
g. Addresses the identified hazards involved and the control measures to be taken.				
3. Statement of Safety and Health Policy detailing their commitment to providing a safe and healthful workplace for all employees.				
4. Responsibilities and Lines of Authorities				
a. Includes the identification and job responsibilities of personnel responsible for safety - at both corporate and project level - including their resumes.				
b. Includes the lines of authority.				
5. Training- new hire SOH orientation training at the time of initial hire of each new employee and any periodic retraining/recertification requirements				
6. Procedures for job site inspections - assignment of responsibilities and frequency				

CESO Checklist A-01, Sep 14

U.S. Army Corps of Engineers Safety Inspection Checklist Abbreviated Accident Prevention Plan			Date of Inspection	
Item Description	Yes	No	N/A	Remarks (Any NO or N/A item)
7. Procedures for reporting man-hours worked and reporting and investigating any accidents as soon as possible but not more than 24 hours afterwards to the Contracting Officer/Representative (CO/COB)				
8. Emergency Planning. Employees working alone shall be provided an effective means of emergency communication. This may be cellular phone, two-way radio or other acceptable means. The selected means of communication must be readily available and must be in working condition.				
9. Drinking Water provisions, toilet and washing facilities.				
10. First Aid and CPR training (at least two employees on each shift shall be qualified/certified to administer first aid and CPR) and provision of first aid kit (types/size).				
11. Personal Protective Equipment				
a. Work Clothing - Minimum Requirements. Employees to wear clothing suitable for the weather; minimum requirements for work shall be short-sleeve shirt, long pants (excessively long or baggy pants are prohibited) and leather work shoes. If AHA determines safety-toed (or other protective) footwear is necessary (i.e., mowing, weed eating, chain saw use, etc), they shall be worn.				
b. Eye and Face Protection. Eye and face protection shall be worn as determined by an analysis of the operations being performed HOWEVER, all involved in chain saw use, chipping, stump grinding, pruning operations, grass mowing, weed eating and blowing operations shall be provided safety eyewear (Z87.1) as a minimum.				
c. Hearing Protection. Hearing protection must be worn by all exposed to high noise activities (includes grass mowing/trimming, chainsaw operations, tree chipping, stump grinding and pruning)				
d. Head Protection. Hard hats shall comply with ANSI Z89.1 and shall be worn by all workers when a head hazard exists. At a minimum, hard hats shall be worn when performing activities identified in (b)				
e. High Visibility Apparel shall comply with ANSI/ISEA 107, Class 2 requirements at a minimum and shall be worn by all workers exposed to vehicular or equipment traffic.				
f. Protective Leg chaps shall be worn by all chainsaw operators.				
g. Gloves of the proper type shall be worn by persons involved in activities that expose the hands to cuts, abrasions, punctures, burns and chemical irritants.				
h. If work is being performed around water and drowning is a hazard, PFD's must be provided and worn as appropriate.				
12. Machine Guards and safety devices. Lawn maintenance equipment must have appropriate guards and safety devices in place and operational.				

CESO Checklist A-01, Sep 14



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APP for Service Contracts

- EM 385-1-1 Section 01.A.12 allows for abbreviated APP for limited scope and service contracts.
- Must be approved by GDA
- Required elements of abbreviated APP also listed in Appendix A



Risk Management Process

Covered in EM 385-1-1 (01.A.14)

- Position Hazard Analysis (PHA)
 - ▶ USACE Standard – Routine work
- Job Hazard Analysis (JHA)
 - ▶ More common with contractors
 - ▶ Equivalent to PHA
 - ▶ Also covers routine work
- Activity Hazard Analysis (AHA)
 - ▶ Required for any non-routine task
 - ▶ Some tasks are specifically required to have an AHA (i.e. critical lifts, lockout/tagout...)



FIGURE 1-1
Position Hazard Analysis (PHA)

Position Hazard Analysis (PHA) for USACE Employees		
Name: (Print - Last, First, MI):		Prepared By: (Print - Last, First, MI):
Job Series: _____		Reviewed By (SSHO): _____
Job Title: _____		
Job Number (SF52): _____		Date (Mo) _ _ (Day) _ _ (Year) _ _ _ _
Command Name & Organization Code: _____		
Primary Duty Location: _____		
Clearances Required		
EM OPS Team <input type="checkbox"/> First Aid/CPR <input type="checkbox"/> Respirator <input type="checkbox"/> CDL Crane Operator <input type="checkbox"/> Diver <input type="checkbox"/> HTRW <input type="checkbox"/> Other <input type="checkbox"/>		
Position Tasks	Safety and/or Occupational Health Hazards*	Recommended Controls
1. _____	1. _____	1. _____
2. _____	2. _____	2. _____
3. _____	3. _____	3. _____
4. _____	4. _____	4. _____
5. _____	5. _____	5. _____

*Note - Examples of potential hazards are as follows:

Safety:	Excavating; electrical; slips, trips, falls; falls from heights, motor Vehicle/equipment operation; compressed air; fire; etc.
Physical Agent:	Exposure to heat/cold; noise; stress; vibration; radiation; hot substances; radio frequency; EMF, etc.
Chemical Agent:	Exposure to solvents; cadmium; paints; welding fumes; lead; asbestos; pesticides; etc.
Biological Agent:	Exposure to bloodborne pathogens; poison ivy; insects; fungi; etc.

FIGURE 1-2
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. Severity: the outcome if a mishap occurred. Identify as Catastrophic, Critical, Marginal, or Negligible 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.					
	RAC Chart					
					E = Extremely High Risk	
					H = High Risk	
					M = Moderate Risk	
					L = Low Risk	
Job Steps	Hazards	Controls			RAC	
1. _____	1. _____	1. _____			1. _____	
2. _____	2. _____	2. _____			2. _____	
Equipment to be Used	Training Requirements & Competent or Qualified Personnel name(s)	Inspection Requirements				



Employee Training

- EM 385-1-1 Training requirements often exceed OSHA requirements
- Numerous types of Competent Person definitions (i.e. fall protection, confined space, etc.)
- Ensure training meets requirements before taking classes.



Site Safety & Health Officer (SSHOO)

EM 385-1-1 (01.A.17)

- Must be full-time
- Cannot be the supervisor
- OSHA 30 hour trained
- 5 years of related experience (4 if ANSI or NCCA certified)
- 8 hours of annual Continuing education
- Administers the elements of the APP



Mishap Reporting

EM 385-1-1 (01.D.03)

“any unplanned, undesired event that occurs during the course of work being performed. The term “mishap” includes accidents, incidents and near misses.”

- Reporting thresholds can vary depending on mishap category or degree of employee illness/injury.



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High Hazard Areas

- Areas of USACE emphasis relating to mishap reporting
 - ▶ Electrical – to include Arc Flash, electrical shock, etc.;
 - ▶ Uncontrolled release of hazardous energy (includes electrical and non-electrical);
 - ▶ Load Handling Equipment (LHE) or Rigging;
 - ▶ Fall-from-Height (any level other than same surface), and
 - ▶ Underwater Diving



Questions?



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Resources

- http://www.publications.usace.army.mil/Portals/76/Publications/EngineerManuals/EM_385-1-1.pdf
- <https://www.osha.gov>
 - ▶ General Industry (29 CFR 1910)
 - ▶ Construction (29 CFR 1926)
- <https://ansi.org>
 - ▶ Requires a paid subscription to access
- <http://www.projectsafetytraining.com>
 - ▶ Purchase Walla Walla District specific on-line training courses (HECP, Confined Space, etc.)

