



Panel Discussion - Communicating Safety Initiative Headlines with Contractor Partners

Panel:

Mr. Angel Ho P.E.
NAVFAC Atlantic
Capital Improvements

Ms. Kim Kahler
NAVFAC Atlantic
Acquisition

Mr. Bill Gasser
NAVFAC Atlantic
Public Works (FSC)

Mr. Bill Garrett C.S.P.
NAVFAC Atlantic
Safety Program Manager



Leadership Safety Philosophy

- **People (including contractor employees) are our most critical resource - No job or service is so important or urgent that we cannot take time to work safely.**
- **Everyone has the right to a safe work place.**
- **All mishaps are preventable.**
- **We are accountable for our actions.**
- **Everyone has the authority and responsibility to stop unsafe work.**
- **We have an obligation to watch out for one another.**



FY 09 NAVFAC Contractors:

- **42 million Man hours = +/- 25,000 contractor employees working full time.**
- **115 DART cases (injuries)**
- **FY 09 DART Safety performance Rate of .43 (1/6) versus latest FY for U.S. construction industry average of 2.8**
- **Service Contract .88**
- **Environmental Contracts 1.18**

NAVFAC Six Step Contracting Process (Pillars) - To Successful Contractor Safety Performance



Contractor Partners

Your partnership with us is vital to our collective safety success. We share in your concern for assuring products and services are delivered safely maintaining client mission readiness without disruption or endangerment to contractor or military personnel.

Safety is a key component of production planning

KNOW SAFETY - NO MISHAPS

Join us by making your company goal "ZERO MISHAPS"

Contractor Safety Resources

EM 385-1-1 Safety Checklists

Mishap Abstract (categories)

Safety Requirements and Training Resources

EM 385 Safety Awareness Topics

Crane Entry Forms

[Crane Certificate of Compliance Poster - P-1](#)

[Contractor Entry Package and Forms](#)

[Critical Lift Plan Checklist](#)

[Contractor Crane Start Up Inspection Form](#)

Mishap Reporting Forms

[Fillable CSIR FORM](#)

[Contractor Significant Incident Report \(CSIR-1\)](#)

[Crane Mishap Report](#)

[CSIR Mishap Report Special Questions Guide](#)

EM 385-1-1 and AHA Contractor Resources

[EM 385-1-1 Sep 2008](#)

[Activity Hazard Analysis Example](#)

[Activity Hazard Analysis \(AHA\) Blank Worksheet](#)

[Steps for Ordering EM 385-1-1 Manual](#)

[ORM AHA](#)

[EM 385-1-1 Abbreviated Safety Plan Checklist](#)

[Activity Hazard Analysis Guide](#)

[NEW AHA FORM EXCEL](#)

[EM 385-1-1 Contractor Safety Deficiency Tracking System Form](#)

[AHA and ORM](#)

[EM 385-1-1 Full Plan Review](#)

Contractor Resource - Monthly Self Evaluation Checklist

[Monthly Contractor Self Evaluation Checklist \(PDF\)](#)

[Monthly Contractor Self Evaluation Checklist \(EXCEL\)](#)



EM 385-1-1 2008 Changes

[Changes to Sections 1-5](#)

[Changes to Sections 11-15](#)

[Changes to Sections 21-25](#)

[Changes to Sections 6-10](#)

[Changes to Sections 16-20](#)

[Changes to Sections 31-34](#)

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[EM 385-1-1 Safety Checklists](#)

[Mishap Abstract \(categories\)](#)

[Safety Requirements and Training Resources](#)

[EM 385 Safety Awareness Topics](#)

[Safety Program Management Checklist](#)

[Housekeeping Safety Checklist 08](#)

[Fall Protection Safety Checklist 08](#)

[Articulating Boom Platform Guide Sheet 08](#)

[Scaffold Safe Practices Guide 08](#)

[Mobile Equipment Safety Checklist 2008](#)

[Hydraulic Excavator 2008](#)

[Crawler & Truck Mount Cranes 08](#)

[Critical Lift Safety Checklist](#)

[Hazardous Energy Safety Checklist 08](#)

[Excavation Competent Person Checklist 08](#)

[Floating Plant Safety Checklist](#)

[Hazardous Substance Safety Checklist 08](#)

[Required Safety Plans Checklist](#)

[Personal Protective Equipment PPE Safety Checklist](#)

[Ladder Safety Checklist](#)

[Metal Scaffold Safety Checklist 08](#)

[Structural Steel Safety Checklist](#)

[Machinery & Mechanized Equip Safety Checklist 2008](#)

[Dump Truck Safety Checklist](#)

[Pile Driver Safety Checklist 08](#)

[Material Hoisting Safety Checklist](#)

[Formwork Safety Checklist 08](#)

[Drilling Equipment Safety Checklist 08](#)

[Tree work Safety Checklist 08](#)

[Accident Prevention Plan Review Checklist](#)

[Demolition Safety Checklist 08](#)

[Articulating Boom Daily Walk Around Checklist 08](#)

[Scaffold Systems Safety Checklist \(Other\)](#)

[Tower Safety Checklist](#)

[Motor Vehicle Safety Checklist](#)

[Conveyor Safety Checklist 08](#)

[Rigging Safety Checklist](#)

[Confined Space Safety Checklist 08](#)

[Excavation Safety Checklist 08](#)

[Welding Safety Checklist 08](#)

[Dive Operations Safety Checklist](#)

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[Mishap Abstract \(categories\)](#)

[Safety Requirements and Training Resources](#)

[EM 385 Safety Awareness Topics](#)

Mishaps Lessons Learned Abstracts

- | | |
|--|--|
| PIER HIGH MASTE LIGHTING FAILURE | Hazard Associated with Double Connections |
| Crushed/Struck by Railroad Car - DEC 2009 | Office Surge Protector Electrical Fire Near Miss July 09 |
| Metal Roofing/Electrical March 2008 | NOV 08 Timber Sales - Manual Tree Felling Struck by |
| Chain Saw laceration to foot while clearing 1-08 | FIRE LESSONS 6-06 |
| Wooden truss collapse 1-06 | Sewer gas 3-03 |
| Uncontrolled water release damage 10-03 | Roof of Tank 2-02 |
| Confined Space 3-02 | Plastic pipe test failure 6-00 |
| Steam release (burns) 1-98 | |

Tool/Material Handling Mishaps Lessons Learned Abstracts

- | | |
|---|---|
| Crushed Dropped Steel Beam During Column Double Connection Procedure DEC 2009 | Crushed by Concrete Pile Material Handling DEC 2009 |
| Crushed by tank during lining separation procedure Nov 2009 | Crushed by dropped steel beam - SEP 2009 |
| Pinch Point Feb 2009 | Oxygen Regulator Mishap Jan 2009 |
| Weed Wacker w/ cutter attachment Leg Laceration Nov 08 | Metal Box Laceration Apr 07 |
| Laceration by portable masonry saw 9-99 | Laceration from masonry saw 3-96 |

Masonry & Scaffold Mishaps Lessons Learned Abstracts

- | | |
|---|---|
| Concrete Panel Tip Over - No Bracing May 09 | Masonry wall bracing 1-04 |
| Masonry bracing guide 1-04 | Scaffold turn over 12-98 |
| Precast concrete failure 6-97 | Crushed by precast concrete 11-01 |

Equipment(Heavy) Lessons Learned Abstracts

- | | |
|--|--|
| Dropped Steel Beam During Erection Procedure Using a Forklift AUG 09 | Mower Alert July 09 |
| Fork Lift Electrical Contract Near Miss June 09 | Asphalt Milling Machine Roll Over |
| Rough Terrain Forklift April 2009 | Lattice Boom Crane Failure (Valve malfunction) 10-08 |
| Equipment roll over 3-08 | Dump Truck overturn 12-08 |
| Riding Lawn mower overturn 12-07 | Dump truck Power Line Contact Apr 07 |
| Dump Truck Power Line Contact 2-07 | Burn while refueling equipment 5-07 |
| Articulating Platform Roll Over 3-07 | Back hoe overturn 5-07 |
| Traffic (bus) accident 4-07 | Overturned extendable boom forklift 9-07 |
| Equipment dropped load (trenchbox) 8-07 | Conveyor system (crushed) 6-06 |
| Roller Equipment Rollover 11-06 | Skid Steer Loader caught between Nov-02 |
| WORK PLATFORM ADVISORY 11-02 | Trenchbox failure 10-01 |
| Mini excavator roll over 9-99 | Struck by Skid Steer Loader 1-99 |
| 9-96; Skid Steer Loader | Burn refueling weed wacker 4-07 |
| Crushed by concrete pipe 7-07 | Jack hammer air hose failure 8-07 |
| Excavator Rigging Mishap Lessons Learned 1-07 | Waterfront Operations skid steer loader 4-06 |
| Barge Mishap 5-02 | Floating plant work crushing 12-02 |

Excavation Lessons Learned Abstracts

- | | |
|--|--|
| Excavation digs up electrical cable near miss 2-08 | Underground storage tank removal 12-98 |
| 11-96; Excavation Scoping | 12-96 - Excavation Cave in |

Electrical Mishaps Lessons Learned Abstracts

- | | |
|--|---|
| Maintenance Mechanic Contact with Electricity - NOV 2009 | BOS Service Electrical Fatality July 09 |
| Electrical panel fire/contact July 09 | Office Space Electrical Shock July 09 |
| Unauthorized HV Switch Operation (Cut lock) 6-08 | Arc Flash Injury 6-08 |
| Generator Testing Arc Flash 3-08 | Cable Pulling 1-08 |
| Electrical Shock 6-07 | Electrical Flash Burn 8-05 |
| Auger underground power line contact 3-04 | Electrical Flash burns 4-02 |
| Drilling into Pier mishap 3-00 | Electrical wrong cable cut 7-98 |

Crane and Rigging Mishaps Lessons Learned Abstracts

- | | |
|--|--|
| Crane Overturn - DEC 2009 | Crane hook failure 3-07 |
| Crane slip off barge 6-03 | Crane (lattice) overturn 2-02 |
| Barge Crane over turn 2-02 | Crane Incident falling debris 3-02 |
| Precast delivery crane overturn 9-01 | Crane contact with power line 9-01 |

Fall Mishaps Lessons Learned Abstracts

- | | |
|---|---|
| Construction/HVAC Mechanic Fatal Fall JUN 09 | Defective fall protection safety lanyard 1-08 |
| Fall through opening 5-07 | Fall From Utility Bucket Truck Sep-07 |
| Fall from height structural steel painting 3-07 | Fall From Scaffold 10-06 |
| Fall from man lift 11-05 | Fall during steel erection 2-04 |
| Fall from metal pitched roof 4-01 | Fall installing reinforcing steel 8-99 |
| Fall painting communications tower 4-98 | Fall structural steel demolition 6-97 |
| Fall from building opening debris removal 1-98 | |

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[Safety Requirements and Training Resources](#)

[EM 385 Safety Awareness Topics](#)

Safety Requirements

[EM 385-1-1 \(2008\)](#)

[EM 385-1-1 Web Based training](#)

information that allows users to accomplish EM 385-1-1 Training

[OSHA 29 CFR 1926](#)

[USACE EM 385-1-1 \(2003\)](#)

[Tri Services Guide Specification](#)

[OSHA Outreach Training Resources](#)

MIDLANT CONTRACTOR FORUM

[Opening Remarks](#)

[Trends and Lessons Learned](#)

[Mishap Lessons Learned](#)

[Workload & Source Selection](#)

[Panel Contractor #1 Safety Program Overview](#)

[Panel Contractor #2 Safety Program Overview](#)

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General Safety Requirements

[2010 General Requirements](#)
[2010 Enforcement Gov't Tools](#)

Activity Hazard Analysis (AHA)

[2010 AHA](#)
[2010 AHA 2](#)

Crane Safety

[2010 General Crane Safety](#)
[2010 Tower Crane Safety](#)
[2010 Rigging Safety](#)
[Crane Rigging Terminology](#)
[Technically Difficult Rigging Arrangements](#)
[Pile Driver Checklist](#)
[Daily Crane Checklist](#)

Electrical Safety

[2010 Electrical Safety](#)
[ELECTRICAL SAFETY GUIDE.PDF](#)
[Hazardous Energy Control Checklist](#)

Excavation

[2010 Excavation Safety](#)

Concrete & Masonry

[2010 Concrete & Masonry Safety](#)

Demolition Safety

[2010 Demolition Safety](#)

Hand & Power Tool Safety

[2010 Hand & Power Tool Safety](#)

Waterfront Construction Safety

[2010 Waterfront Safety](#)

Lead Safety

[Environmental Lead Plan Outline](#)

Fall Protection Safety

[2010 Fall Protection \(General\)](#)
[2010 Fall Protection - Ladders & Stairways](#)
[2010 Fall Protection - Steel Erection](#)
[2010 Fall Protection - Work Platforms](#)
[2010 Fall Protection - Roofing](#)

Welding Safety

[2010 Welding & Hot Work Safety](#)

Confined Space Safety

[2010 Confined Space Safety](#)
[Confined Space Checklist](#)

Equipment Safety

[2010 Heavy Equipment Safety](#)
[Dump Truck Checklist](#)



Contract
Preparation



Contractor
Selection



Contract
Award



Pre- Work
Orientation



Evaluating KTR
Risk Management



Mid/Final-Contract
Evaluation

NAVFAC Six Step Contractor Safety Process



Safety as Contractor Selection Factor

Community Sharing of Proposal

Issues and Concerns



- Increase in contractor mishaps and fatalities
- Need for a standard and consistent approach across organization for safety in contractor selections
- Need to institute industry (Private and Government) proven management best practices to evaluate risk

NAVFAC Atlantic Proposal



- **Safety will be evaluated in all source selections**
 - All Construction, FSC, and Environmental
- **Safety will be a stand alone evaluation factor in the technical proposal**
 - Will no longer be a sub-factor or an element to the Past Performance factor
- **Standard factor language will be required for stateside and overseas**
 - Current proposed language applies to stateside only
 - Still need to develop language for overseas

Elements of the Safety Factor



-Experience Modification Rate (EMR)

- Required for Prime Contractor or each member of a JV
- Past 3 years of data (each Year = previous 3)
- Explanation of extenuating circumstances or trends

-OSHA Form 300A

- Already required by OSHA
- Summary of Work-Related Injuries & Illnesses
- Captures all cases
- Required for Prime Contractor or each member of a JV
- Past 3 years of data
- Explanation of extenuating circumstances or trends

Elements of the Safety Factor



-OSHA Total Recordable Case (TRC) Rate

- Industry standard - already required by OSHA
- Required for Prime Contractor or each member of a JV
- Past 3 years of data
- Explanation of extenuating circumstances or trends

-OSHA Days Away from Work, Restriction, or Transfer (DART) Rate

- Industry standard - already required by OSHA
- Required for Prime Contractor or each member of a JV
- Past 3 years of data
- Explanation of extenuating circumstances or trends

Elements of the Safety Factor



- OSHA Citations

- Contractor to provide listing of all citations for past 3 years
- Government will be able to verify through OSHA public website – Refer to safety staff advisor to interpreter

- Safety Awards

- FAIR Database (NAVFAC Facility Accident and Incident Reporting)

- NAVFAC may review any data contained in the FAIR database

- Other databases or sources

Elements of the Safety Factor



-Safety Narrative

- Limited to 5 pages
- Do not want rewrite of safety post award submittal
- Identify actions taken to address/correct past safety problems
- Summarize processes to monitor safety performance and ensure a safe worksite – focus on subcontractors.
- At a minimum, address...
 - Employee involvement and orientations
 - Training
 - Worksite Analysis
 - Mishap Investigation
- Innovative methods to ensure and monitor – subcontractors
- Outline how/if contractor evaluates safety performance of potential subcontractors as part of subcontractor selections

Evaluation of the Safety Factor

(Direction to Board Members)



- **Board will establish overall rating for the safety factor**
 - Many elements to factor – NOT SUB FACTORS
 - Consider all (not one by itself) elements to establish a single adjectival rating for Safety
- **EMR, TRC, and DART evaluation**
 - Do not average the data
 - Look for trends
 - Take into account extenuating circumstances
- **FEC Safety representative should act as evaluation advisor**
 - Interpret terminology
 - Understanding of OSHA rates
 - Assist with website and database searches

THANK YOU.....



**QUESTIONS AND
COMMENTS**