

Fuels MATOC Newsletter

November 2018
Issue FY19-2

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"Providing clean, dry fuel reliably and safely to support the mission/troops."

Overview

This month the focus is on safety. This month's article was submitted by Mr. Taylor Moore from Enterprise Engineering Inc. (EEI). Taylor describes how EEI establishes and enforces a safe working environment for performing tank inspections.

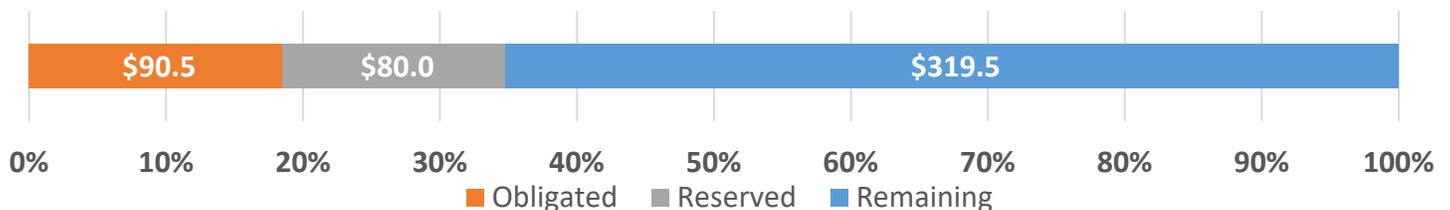
Next month's topic is risk management. How does your company manage risk throughout a project lifecycle? How is risk incorporated into project cost, schedule, and quality? Please have all suggestions and / or articles submitted by 30 Nov 2018.

The current advertisements include the name of the contract specialist. If you have questions during the solicitation please contact the contract specialist who will be able to answer your questions.

Please send feedback, questions, or suggestions to Greg Etter, POL-MCX Program Manager at:

Gregory.M.Etter@usace.army.mil

Contract Capacity Status



90 Day Advertisement Outlook (6)

Program	Project Title	Location	OTSB/SB	Month
CMP	SP-POL-REPAIR-FY19-ARNOLD AFB TANK 802, 806, 807	Arnold AFB	OTSB	November
PPS	SP-POL, Fueling System Repairs Nebo Center MCLB Barstow	MCLB Barstow - Nebo	OTSB	November
CMP	Demolish and Replace Fuel Storage Tanks	Battle Creek ANG	OTSB	November
PPS	SP-POL, Fueling System Repairs MCB Quantico	MCB Quantico	SB	November
CMP	SP-POL-REPAIR-FY19-FORT RUCKER TANK 50302, RU50302-1, RU50302-2, RU50302-3	Fort Rucker	OTSB	December
PPS	SP-POL, Fueling System Repairs Yermo Annex MCLB Barstow	MCLB Barstow - Yermo	OTSB	December

Current Advertisements (9)

Program	Project Title	Location	Contract Specialist	OTSB/SB
CMP	SP-POL-FY18-REPAIR-Bradley Field ANG, CT FAC 10418	Bradley Field	Fisher, Katherine	SB
SRM	SP-POL-Ft Bliss - Fueling Facility Demolition	Ft. Bliss, El Paso	Blankenfeld, Franciska	OTSB
SRM	Dover AFB Truck Offload Skid	Dover AFB	Blankenfeld, Franciska	SB
CMP	SP-POL-REPAIR-FY18-Birmingham Tank 220,221,430, 431	Birmingham ANG	Barnett, Dawn	OTSB
PPS	Fueling System Repairs-Cairns Field	Fort Rucker	Blankenfeld, Franciska	OTSB
PPS	SP-POL-PPS-Fueling System Repairs-Davison	Davison AAF, Ft Belvoir	Blankenfeld, Franciska	OTSB
SRM	SP-POL Replace JP8 Transfer Line	Eglin AFB	Blankenfeld, Franciska	OTSB
CMP	SP-POL-REPAIR-FY18-Ft Riley Tank 8314D	Fort Riley	Barnett, Dawn	SB
SRM	SP-POL-Ft Polk - Fueling Facility Demolition	Ft Polk	Blankenfeld, Franciska	OTSB

Contracts Awarded Since Last Newsletter (0)

Program	Project Title	Location	Contractor

API 653 Tank Inspection Safety

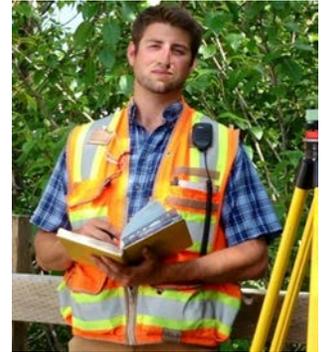
By Taylor Moore, Safety Coordinator, Enterprise Engineering, Inc.

Enterprise Engineering, Inc. (EEI) has the privilege of performing inspections of fuel storage tanks for the Department of Defense (DoD) at military installations around the world. Tank inspectors encounter a wide variety of hazardous conditions that could result in serious injuries to workers or potential loss of critical government assets if not properly addressed. Implementing a comprehensive safety program to support these critical inspections is essential.

Prior to commencing an inspection, EEI prepares a project specific Accident Prevention Plan (APP) incorporating applicable Activity Hazard Analysis (AHA) assessments which adhere to safety standards as established by EM385-1-1, OSHA 29 CFR 1926, and API 2015. All inspection team members are required to review the APP before arriving on-site to ensure hazards are understood and proper Personnel Protective Equipment (PPE) is obtained. Once on-site a thorough site assessment and daily job site safety meetings are conducted by our trained inspectors to identify site specific hazards. Once identified, risks are mitigated through engineering controls, utilization of PPE, and strictly enforcing job site safety. Every tank inspection presents its own unique challenges and hazards, but the three most common hazards, as discussed below, include falls from dangerous heights, energy isolation, and entry into confined spaces. Other hazards include slips, trips, and falls, falling objects, harmful noise, moving equipment, limited communication, and other work activities in the area.

Fall protection is a concern on nearly every tank inspection. From the moment an inspector walks on site, falls could occur while climbing over or on containment berms, piping, stairs, ladders, platforms, scaffolding, and tank roofs, or from entering through a tank manholes. Inspectors frequently need to use harnesses and fall arrest equipment to ensure safety when working on high surfaces without railings or when descending ladders into underground tanks.

Following a detailed Lockout/Tagout program to isolate hydraulic and electrical energy is the first step towards ensuring safe entry inside of a tank. The unexpected release of product into a tank where work is being performed would place inspectors in a dangerous situation. Prior to entry, inspectors must complete a walk around of the entire tank to verify that fill and issue shell valves are locked closed, blinds are installed where applicable, and electrical panel boxes are locked out. Appropriate tagging must be affixed by EEI personnel to lockout devices and in-line blinds must be installed where applicable.



API 653 Tank Inspection Safety continued

Confined space with hazardous atmosphere is arguably the most dangerous threat on most internal tank inspections. Prior to entry, the atmosphere inside the tank must be monitored with properly calibrated electronic gauging to determine that sufficient levels of oxygen are present and that the space is sufficiently free of hazardous gases by verifying the levels of Hydrogen Sulfide (H₂S), Lower Explosive Limit (LEL), Volatile Organic Compounds (VOC), and Carbon Monoxide (CO). Results of the monitoring are recorded on an entry permit along with the names of all entrants and emergency contact information. Continuous atmospheric monitoring and ventilation are performed throughout the full duration of the inspection. A trained and certified person is designated as a hole watch and must remain outside the entrance at all times to log all entries and exits in and out of the tank. Prior to starting work, EEI notifies rescue services and ensures the hole watch has the ability to contact the rescue team in the event of an emergency.

It is paramount that EEI tank inspectors also be safety specialists, with the appropriate trainings, certifications, and experience to identify potential hazards and implement safety programs that mitigate or eliminate them. Minimum required trainings and certifications include Confined Space Entry, Fall Protection, OSHA 30hr, and/or 40hr EM 385-1-1. Although a designated Site Safety and Health Officer (SSHO) is responsible for ensuring the implementation of the safety program, it is essential that all personnel take initiative to be aware of potentially hazardous conditions upon entering the site, verify that proper procedures are followed, and use high quality PPE while performing work. Ensuring that our employees return home safely to their friends and family after completing the inspection is our number one priority.

Be Safe,

Taylor Moore
Safety Coordinator
Enterprise Engineering, Inc.



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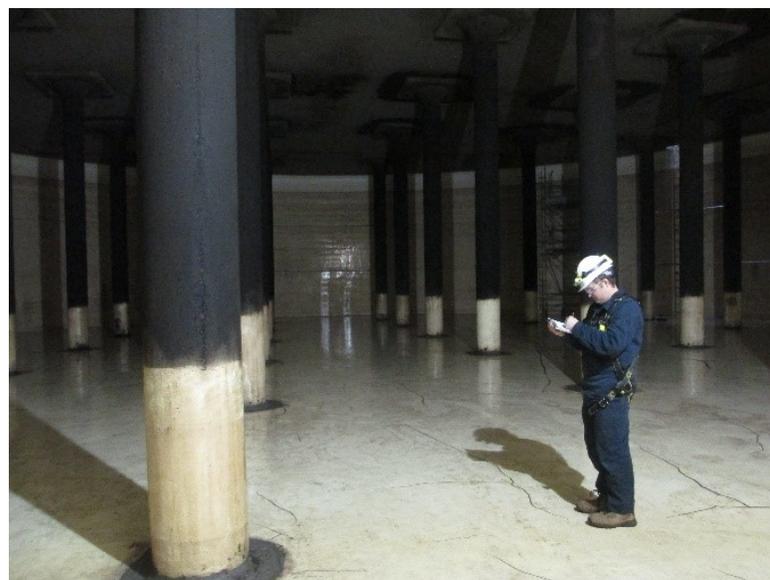
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This publication is produced for the
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Enterprise Engineering, Inc's James Hall, P.E. performs an API 653 Out of Service inspection of a Cut and Cover Tank