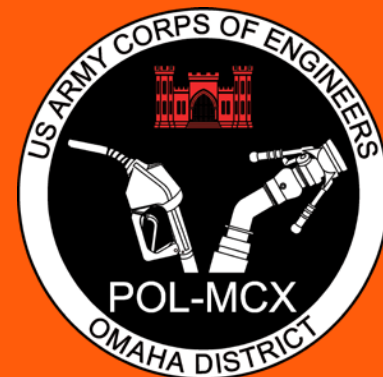




PROVIDING CLEAN, DRY FUEL RELIABLY AND SAFELY TO SUPPORT THE MISSION/TROOPS.

Newsletter

USACE Fueling Systems POL-MCX



IN THIS ISSUE

Recognizing Excellence

The U.S. Army Corps of Engineers (USACE) Petroleum, Oils, Lubricants Mandatory Center of Expertise (POL-MCX) located in Omaha supports the **three priorities** established by USACE Northwest Division Commander Brigadier General Helmlinger:

- take care of People,
- support our Partners, and
- deliver Programs.

Page 2 of this newsletter highlights instances when POL-MCX team members and partners were recognized for their positive impacts and outstanding contributions to the fuels community. This tradition of recognizing excellence continues during the POL-MCX peer awards ceremony scheduled for Oct. 12, 2018 in Omaha where both nominators and nominees will be recognized for their efforts to **succeed as a team**.

PHOTO CAPTIONS & CREDITS

Top: Fuel fillstands at Travis Air Force Base, California with two C-5 aircraft parked on apron. Photo was taken by Harry Weddington, Omaha District staff photographer, who is retiring after 39 years of service.

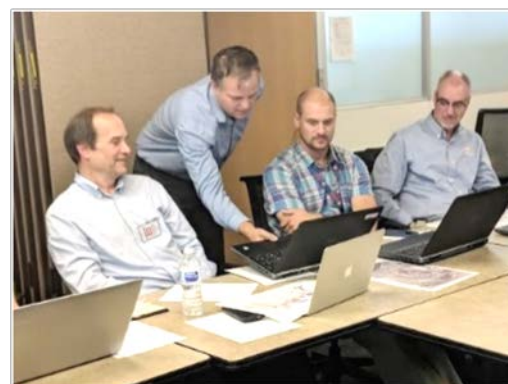
Photo by Harry Weddington.

Middle: POL-MCX hosting a design charrette and providing guidance to industry representatives on the correct application of design standards. From left: Bill Corish (Corish Engineering), Dustin Scheuffele (POL-MCX mechanical engineer), Nicholas Dubas (POL-MCX structural engineer) and Robert Gunkelman (POL-MCX civil engineer).

Photo by Greg Etter.

Bottom: Eric Wiedemann (Chief, Sustainment, Restoration & Modernization, Defense Logistics Agency Energy) touring bulk fuel storage tanks at Offutt Air Force Base in Nebraska during the Defense Logistics Agency Energy Sustainment, Restoration & Modernization Construction Agent meeting on July 31 – Aug. 2, 2018 at Offutt Base Lake, Nebraska.

Photo by Ron Wieser.



Quarterly roll-up and look-ahead

Learn where the POL-MCX is working in your area.

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Interview of the quarter

Mr. Aric Mousel, POL-MCX structural engineer, discusses his history with the fuels program.

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LOOK FOR THE POL-MCX

Meet the POL-MCX at the **Defense Fuels Summit** on **November 6 – 8, 2018** at Offutt Air Force Base, Nebraska.

POL-MCX Ongoing Fuel Projects

| DESIGN-BUILD AND RAPID RESPONSE | |
|---------------------------------|---|
| USACE DISTRICT | SITE NAME(S) |
| LRH | CAMP DAWSON WHEELING |
| LRL | BLUE GRASS AD FORT CAMPBELL FORT WAYNE GRISSOM ARB MANSFIELD NORTH CANTON WRIGHT PATTERSON AFB |
| NAE | BRADLEY PEASE QUONSET |
| NAO | FORT PICKETT |
| NAP | TOBYHANNA AD |
| NWK | IKE SKELTON |
| NWO | CAMP GUERNSEY CAMP RIPLEY MINOT AFB ST CLOUD WATERLOO |
| NWS | JB LEWIS MCCHORD |
| SAC | MCRD PARRIS ISLAND |
| SAJ | CAMP BLANDING |
| SAM | ANNISTON AD CAMP BLANDING CAMP MCCAIN COLUMBUS AFB PATRICK AFB |
| SAS | CAMP LEJEUNE CHARLESTON AFB FORT BENNING MORRISVILLE POPE AAF ROBINS AFB SEYMOUR JOHNSON AFB |
| SPK | BEALE AFB DUGWAY FORT HUNTER LIGGETT WEST JORDAN |
| SPL | 29 PALMS CAMP NAVAJO CAMP PENDLETON DAVIS-MONTHAN FORT HUACHUCA FORT IRWIN LOS ALAMITOS YUMA |
| SWF | DYESS AFB FORT HOOD |
| SWT | CAMP GRUBER |

POL-MCX Site Visit Look-Ahead

| Q1FY19 LOOK-AHEAD | |
|-------------------|------------------------------|
| USACE DISTRICT | SITE NAME(S) |
| LRL | BATTLE CREEK |
| NAB | FORT BELVOIR MCB QUANTICO |
| NAE | BRADLEY FIELD |
| NWK | FORT RILEY |

| Q1FY19 LOOK-AHEAD (CONT') | |
|---------------------------|--|
| USACE DISTRICT | SITE NAME(S) |
| SAM | ARNOLD AFB BIRMINGHAM ANG EGLIN AFB FORT RUCKER |
| SAS | ROBINS AFB |
| SPL | MCAS YUMA MCLB BARSTOW - NEBO |
| SWF | FORT POLK |



PHOTO CAPTIONS & CREDITS

Clockwise from top left:

- Greg Etter (POL-MCX Program Manager, left) presenting the "Pipeman Pete" award and POL-MCX challenge coin to Debra Simpson (Chief, Program Analysis & Master Planning Branch, Sustainment, Restoration & Modernization Division, Defense Logistics Agency - Energy). *Photo by Jeremy Bell.*
- Brigadier General Helmlinger (USACE Northwest Division Commander, left) presenting challenge coin to Dustin Scheuffele (POL-MCX mechanical engineer). *Photo by 1LT David Grimes.*
- Greg Etter (POL-MCX Program Manager, left) presenting the "Pipeman Pete" award and POL-MCX challenge coin to Eric Wiedemann (Chief, Sustainment, Restoration & Modernization, Defense Logistics Agency - Energy). *Photo by Adam Ashton.*
- COL John Hudson (USACE Omaha District Commander, left) presenting challenge coin to Linda Richards (POL-MCX Program Analyst). *Photo by Greg Etter.*

Update to Value Engineering

The [Apr. 2015](#) issue of this publication highlighted POL-MCX's involvement in developing the Value Engineering (VE) Opportunity Screening Matrix for Fuels Facilities. This screening tool is used by District Value Engineering Officers (VEOs) to determine if additional value engineering oversight is required on eligible USACE contract acquisitions that equal or exceed \$2 million. This tool has been used on over 38 fuels MILCON fuels projects totaling over \$719 million.

USACE Value Engineering policy dictates that Programmatic VE study efforts be updated every three to five years to ensure that changes in methods and materials are captured and reflected in the VE review of eligible projects.

In May 2018 the USACE POL-MCX hosted a workshop to update the fuels programmatic VE study that included participants from the Army, Air Force, Navy, Defense Logistics Agency (DLA), and engineers from private industry to provide a perspective from private industry and practice. The workshop included a review of the VE Opportunity Screening Matrix and its performance over the previous five years. Key improvements to the VE screening tool include:

- Incorporated updates to UFC, UFGS, and Standard Designs that occurred in the interim of the two VE studies;
- Improved rating criteria definitions;
- Clarified the USACE requirement that VE oversight is required on projects with total costs over \$2 million;
- Revised criteria weights to better reflect VE opportunities;
- Increased threshold between Low VE Opportunity and High VE Opportunity from 5.0 to 5.5;
- Improved instructions for completing the tool;
- Provided better guidance for comments to be entered for each rating criterion; and
- Updated screening process to include contributions from Project Delivery Team (PDT), PDT technical lead and Project Manager.

The updated screening tool retained its targeted and simplified approach to communicating those project elements that may benefit from further value engineering evaluation and those that are highly constrained by UFCs, UFGS Standard Specifications, and Fueling System Standard Designs (see below sample screening matrix).

The revised VE Opportunity Screening Tool is available to all who wish to have a copy. For further information please contact Tim 'TC' Carlson, CENWO-ED-C, (402) 995-2187 or timothy.d.carlson@usace.army.mil.

VALUE ENGINEERING SCREENING MATRIX FOR SAMPLE FUELS PROJECT

| VE Opportunity Screening Matrix - Fuel Facilities Projects | | | | | | |
|--|---|--------------------------------|--|--------|-------------|---|
| Project Name: | | Prepared By: | | Date: | | |
| Project Number: | | Approved By: | | Date: | | |
| Total Project Cost: | \$2,175,611 | Proceed with VE Screening Tool | | | | |
| Criteria | Criteria Definitions | Weight | Rating Definition | Rating | Total Score | Rating Rationale |
| Non-Standard Cost | The total estimated costs for all project elements that lie outside the Standard Design, UFCs and UFGS documents. | 15% | \$0 - \$2 million | 1 | 0.2 | The estimated non-standard project costs from the project cost estimate are currently \$475,000 |
| Site Considerations | | | | | | |
| Geotechnical | A measure of the quality of the underlying soils and its impact on the project. | 11% | Soils are good Some data exists | 4 | 0.4 | Soil borings suggest good soil quality |
| Logistical | A measure of how easy it is to obtain labor and materials. | 11% | CONUS Location - 50+ miles of a major city | 2 | 0.2 | Scranton, PA is approximately 20 miles away and Newark, NJ is approximately 75 miles away. |
| Siting Constraints | A measure of the existing constraints for a project site (i.e., proximity to existing uses, availability of space, flight lines, etc.) | 5% | Site has typical site constraints. | 3 | 0.2 | The project area is established and therefore is landlocked. However, mainly just repair project within the same relative area. There is additional paving on the northeast end of the project site, but worked through this with the base already. |
| Environmental | A measure of the how challenging the environmental constraints and conditions are. | 11% | Site has typical to moderate environmental issues | 4 | 0.4 | There is no record of contamination. However, during the tank removal, there is an optional bid item to test the soils should excavation reveal any indicators of contamination. There was contamination at this base, but base environmental assured project team that the prior contamination is not in |
| Design Considerations | | | | | | |
| Flexibility | A measure of the flexibility of the design with respect to either degree of project definition or operational constraints and how it effects the design). | 10% | Majority of project is reasonably defined but contains several areas that are not well defined | 5 | 0.5 | Overall the scope appears to be defined for Contractor to finish design and and construct. However, there is the electrical modifications that were added recently that are not as well defined as the rest of the scope. |
| Vertical Construction | A measure of the degree of vertical construction involved in the project. | 14% | Building(s) involved are less than 1,000 SF | 2 | 0.3 | There is a rehabilitation (cleaning and painting) of an approximately 275 SF building. |
| Demolition | A measure of the degree of demolition in the project. | 5% | Moderate demolition (some USTs, pipe runs, etc.) | 5 | 0.3 | There are 4 UST's, truck loading equipment, dispensers and fuel piping that will be replaced. |
| Construction Considerations | | | | | | |
| Phasing | A measure of the complexity related to construction phasing or sequencing. | 18% | Typical phasing (demolition, site prep and facilities construction) | 3 | 0.5 | The contractor shall provide alternate fueling arrangements for the duration for all fuel outages during construction. The phasing required to reduce the fuel outage period will be up to the contractor. Otherwise, no additional phasing requirements. |
| TOTAL WEIGHT | | 100% | TOTAL SCORE | | 3.0 | Low Opportunity for Additional VE |

Interview of the quarter: Mr. Aric Mousel POL-MCX structural engineer

Below we learn about Mr. Aric Mousel and his history with the POL-MCX.

➤ What is your role in the POL-MCX?

I serve as a structural engineer for the USACE POL-MCX where I work primarily on the fuel tank inspection and repair program for vertical aboveground fuel storage tanks. I also design military construction projects, Sustainment, Restoration, and Modernization (SRM) projects, as well as prepare scopes of work, review construction submittals, and assist with updating the Department of Defense design standards.

➤ What is the most enjoyable part of your job?

The part of my job I enjoy the most is knowing that we are helping the warfighter complete their mission. The challenging and fast-paced nature of our workload is also very rewarding, never fails to keep me interested, and teaches me something new every day. Military fuels projects have the tendency to get you up to your elbows in unique challenges, and working though those makes it very rewarding to look back and see what you have accomplished.

➤ Is there a project that stands out more than others?

I will never forget being able to travel to Honduras to supervise the cleaning and inspection of a cut-and-cover tank at Soto-Cano Air Base. It was a very interesting, and at times, scary experience that I am happy to have been able to take part in. From the local food, highways cutting through the mountain jungles, and the shotgun wielding yet very friendly hotel guards, it is an experience I talk about as often as I can.

➤ What might someone be surprised to know about you?

I am a self-taught bass guitarist who was in an amateur band at one point. I like playing classic rock, metal, grunge, and all sorts of stuff in between. I can cover almost anything with a good bass line. Never learned how to read sheet music, though.



Aric Mousel, POL-MCX structural engineer.
Photo by Aric Mousel.

What's wrong with this picture?

Put your fuel system assessment skills to the test by examining this pipe configuration and identifying what is incorrect.

For a clue, reference AW 78-24-28 "Pressurized Hydrant Fueling System Type III."

<https://www.wbdg.org/ffc/dod/non-cos-standards>



HOW TO REACH US

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