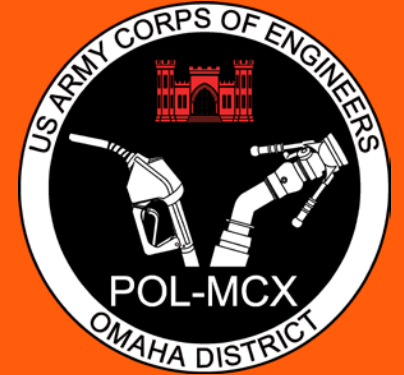




PROVIDING CLEAN, DRY FUEL RELIABLY AND SAFELY TO SUPPORT THE MISSION/TROOPS.

# Newsletter

## USACE Fueling Systems POL-MCX



### IN THIS ISSUE

## Value First

The U.S. Army Corps of Engineers (USACE) Petroleum, Oils, Lubricants Mandatory Center of Expertise (POL-MCX) continually develops resources used by the fuels community to produce quality projects around the world.

In addition to providing “value added” during a project, we give “value first” by offering these resources often and without expectation. The POL-MCX continually seeks opportunities to offer these resources to our partners, such as our recent Fuels Introduction Workshop at Andrews Air Force Base, Maryland.

### LOOK FOR THE POL-MCX

Meet the POL-MCX at the **DLA-Energy SRM CA Meeting on July 31 – August 2, 2018** at Offutt Base Lake, Nebraska.



### PHOTOS CAPTIONS & CREDITS

**Top:** Matt Peterson (POL-MCX mechanical engineer, left) inspects a hydrant pit prior to tuning while Matthew Hoyle (Civil Engineer / Office Engineer, Savannah District) locates adjacent hydrant fuel pits along Green Ramp at Pope Army Airfield, North Carolina.

**Middle:** Matt Olijnek (POL-MCX project manager, right) explains the operation of an automatic tank gauge on top of an aboveground fuel storage tank at Andrews Air Force Base, Maryland, to representatives from Defense Logistics Agency and Service Control Points. The Andrews Air Force Base fueling system tour was part of the POL-MCX's second annual Fuels Introduction Workshop for members of the military fuels community.

**Bottom:** Ed McAllister (Bay Associates, right) explains the function of different valves in a Type III pressurized hydrant fueling system at Andrews Air Force Base, Maryland. From left: Deborah Massenburg (HQUSACE DLA National Account Manager), Linda Richards (POL-MCX Program Analyst), and Randy Adams (Facilities Team Lead, Army Petroleum Center).

*Photos by G. Etter.*



### 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. Dustin Scheuffele, POL-MCX mechanical engineer, discusses his history with the fuels program.

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# POL-MCX Ongoing Fuel Projects

# POL-MCX Site Visit Look-Ahead

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

| Q4FY18 LOOK-AHEAD |  |
|-------------------|--|
| USACE DISTRICT    | SITE NAME(S)                                 |
| LRH               | AASF PARKERSBURG<br>AASF WHEELING            |
| LRL               | BATTLE CREEK<br>FORT CAMPBELL<br>GRISSOM ARB |
| NAB               | ANDREWS AFB<br>BYRD FIELD<br>FORT BELVOIR    |
| NAP               | PITTSBURGH ARS                               |
| NWK               | CAMP CROWDER                                 |

| Q4FY18 LOOK-AHEAD (CONT') |   |
|---------------------------|---|
| USACE DISTRICT            | SITE NAME(S)                              |
| NWO                       | MITCHELL FIELD                            |
| POJ                       | KADENA                                    |
| SAS                       | DFSP CHARLESTON<br>ROBINS AFB<br>SHAW AFB |
| SPL                       | MCAS MIRAMAR                              |
| SWF                       | BARKSDALE AFB<br>FORT BLISS<br>FORT POLK  |



**PHOTO CAPTION & CREDIT**

Nick Dubas (POL-MCX Structural Engineer, middle) explains updates to the Cut & Cover design standard to industry and Government representatives at RAAF Darwin, Australia. Photo by G.Etter.

**HOW TO REACH US**

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# Commissioning Process

Successful commissioning of a fueling system consists of four activities:

1. Flushing & cleaning
2. Pressure testing
3. Tuning
4. Acceptance testing.

These activities are performed by a qualified systems supplier and **observed by a qualified Government witness** to ensure the fueling system meets readiness requirements.

This page summarizes each activity and relevant criteria.

## PHOTO CAPTIONS

### From Top:

In-shelter refueling point connected to flush line. This configuration allows operators to recirculate the fuel through the filter separators.

Pressure gauge located in Type III pumphouse. This and similar instruments are used to verify that the correct pressure has been achieved and maintained for the duration of the test.

R12 Hydrant Hose Truck (HHT, left) connected to hydrant pit and R11 refueler. This configuration is used to demonstrate that the fueling system delivers fuel safely and reliably at each hydrant pit.

KC-135 Stratotanker receiving fuel from an R12 HHT connected to the hydrant fueling system. A commissioning process often culminates in the fueling of the weapons system.



## FLUSHING & CLEANING

### Purpose:

Circulate fuel through system to remove contaminants

### Criteria:

UFGS 33 08 53  
UFGS 33 52 43.13  
UFGS 33 65 00



## PRESSURE TESTING

### Purpose:

Maintain set pressure for specified duration

### Criteria:

UFC 3-460-01  
UFGS 33 08 53



## TUNING

### Purpose:

Calibrate system components to meet performance specifications

### Criteria:

UFGS 33 08 53



## ACCEPTANCE TESTING

### Purpose:

Demonstrate system operation meets performance objectives

### Criteria:

UFGS 33 08 53

# Interview of the Quarter: Mr. Dustin Scheuffele POL-MCX Mechanical Engineer

Below we learn about Mr. Dustin Scheuffele (pronounced "shy flea") and his history with the POL-MCX.

## ➤ What is your role in the POL-MCX?

I serve as a mechanical engineer for the USACE POL-MCX where I support both project execution and technical support activities. This dual-hatted role enables me to maintain my technical competency so that I may effectively guide our USACE counterparts on project requirements and communicate design requirements to our partners in industry.

## ➤ What might someone be surprised to know about you?

I'm described as jack of all trades, master of none with my hobbies. I enjoy amateur astronomy and building random electrical gadgets in my basement laboratory (equipped with an oscilloscope from 1980 and about 30,000 unused resistors). I have a large sports card collection and enjoy hunting, fishing, and traveling. My most recent trip was to Iceland where I rented a camper-van and trekked from the northwest to the eastern part of the island.

## ➤ What is the most enjoyable part of your job?

I enjoy working with the most dedicated and passionate group of individuals from all backgrounds (business, contracting, engineering, operations, and construction) in public and private sectors who share a common goal of providing clean, dry fuel in support of America's interests.

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

I'd have to pick the fueling system acceptance testing at McConnell Air Force Base, Kansas, during a snowstorm. When I updated my mentor (**Craig Margrave**) on the status of the testing, he replied with a picture from his site visit to south Florida! The above photo was my response.



Dustin Scheuffele, POL-MCX Mechanical Engineer.  
Photo by P. Wagner.

## 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>

