



Program Executive Office Special Operations Forces Support Activity (PEO SOFSA)
Trusted Experts for SOF Logistics

Introduction To Mobile Technology & Repair Complex (MTRC)

Jason A. Schroeder

20 AUG 2020



Mobile Technology & Repair Complex - MTRC

Mission

MTRC Provides the Capabilities and Processes to **Rapidly Modify, Repair, and Fabricate** SOF Equipment and Facilities, at the **Point of Need**, in Order to Bridge Operational Gaps and Adapt to Opposition or Environment Changes

MTRC Teams Deployed Globally

Capabilities

Point of Need Engineering In Austere Locations:

- 1 USG Civilian Engineer + 1 SOF Technician
- Specialized Skills / Equipment in the Following
 - Engineering / CAD / 3D Printing
 - Advance Manufacturing / Machining
 - **Welding**
 - Carpentry / Electrical
 - Kydex & Sewing



MTRC Operational Concept Overview



- Two Deployable ISU-90 Like Modules and Mobility Platform with Trailer Tailored to Mission and/or Location
- Provides Critical Engineering Services and Support Within the Constraints of Limited Logistics
- Deploys with Initial Push Package of Raw Material, Long Term Sustainment via Military and Commercial Re-supply

MTRC Welding Top Level Requirements

- Welder 1 Notional Top Level Requirements
 - **For In-shop / Home-Station Use**
 - Provides Steel & Aluminum MIG, Flux-Core, Stick, DC & AC TIG, and Pulsed-MIG Capabilities
 - Power and Duty-Cycle Ratings Comparable to the Miller 255 Specifications
- Welder 2 Notional Top Level Requirements
 - **For Mobile Use (i.e. in a Commercial Ground Vehicle)**
 - Provides a Smaller, Portable, and Heavy Duty Capability
 - Packaged in a pelican-style case (or like system)
 - Have Steel & Aluminum MIG, Flux Core, Stick, and DC & AC TIG Capabilities
 - Intent is to be Light Enough for a single Person to Easily Move in Hard to Reach Areas
 - Comparable to the Millermatic 200 Functionality / Portability; However Have an Increase Capability Compared to the Millermatic 200's Power Rating / Duty Cycle in Conjunction with Improved Durability and Functionality of Peripherals – Specifically the MIG gun, Spool Gun, TIG kit and/or Other Like Items
- Additional Notional Top Level Requirements
 - Not to Exceed 2 Welding Systems
 - Input Power @ 100-240V, 1ph, 50-60Hz
 - Plug Adapters for Different Sources is the Notional Objective
 - Standard U.S. 110V Receptacles or NEMA 6-50 220V 50A Receptacles Preferred
 - Portable Model Should Not Exceed 40 lbs. (Not Including Durable Case)
 - Fixed Site Model Should Not Exceed 100 lbs.

MTRC Combat Evaluation Schedule

- Phase 1 – 30 July 2020 to 03 September 2020 Submissions Open for Combat Evaluation
- Phase 1b – **20 August 2020 Q&A Telecom**
- Phase 2 – 04 September 2020 to 08 September 2020 Down-select
 - USSOCOM Will Down-Select Those Respondents With The Submissions They Feel Have the Highest Potential to Address Known Operational Deficiencies
 - Favorably Evaluated Submissions Will Receive an Invitation on or Around 8 September 2020 to Participate in the Combat Evaluation
- Phase 3 – 20 October 2020 to 22 October 2020 Combat Evaluation:
 - Respondents Required to Address 4 Distinct Welding Challenges in a Limited Physical Space in an Open Air Environment
 - 20 October 2020 Allocated to Set-Up
 - **21 October 2020 Allocated Towards the Welding Challenges**
 - 22 October 2020 Allocated to Tear-Down

MTRC Combat Evaluation Welding Challenge

- **21 October 2020 Welding Exercises:**

Exercise	Weld Process
1	Solid Core Gas Shielded
2	Flux Core Self Shielded
3	Shielded Metal Arc Welding
4	Solid Core Gas Shielded

- USSOCOM PM-ES will Provide the Physical Materials to be Welded and General Instructions with Regards to the Method(s) of Welding to be Used
- The Respondents will be Limited to a 14'x14' Space Outside and Subjected to any of the Environmental Conditions During the Combat Evaluation (I.E. Wind, Rain, Sun, Dust, Etc.)
- The Respondents will Bring all Associated Welding Systems, Equipment, Power, Supplies, Material, Gasses, Consumables, Etc. to Execute the Four Welding Challenges in an Eight-Hour Period within the Allocated 14'x14' Space
- The Respondents will Have Approximately One Hour of Time to Conduct Each Welding Challenge, With One Hour of Reset, and will be Actively Evaluated Throughout the Three Days of the Combat Evaluation

MTRC Q&A Panel Members

Mr Jason Schroeder

PEO SOFSA Program Manager - Expeditionary Support (PM-ES)

Mrs Joel Fox

PEO SOFSA PM-ES MTRC Acquisition Program Manager

Mr Nigel Wasil

NSWC-Crane - MTRC Project Manager

Mrs Kinsey Crim

SOFWERX

Questions / Reference Data

Questions & Answers:

- Previously Provided
- Open Forum Time

SOFWERX Website:

https://events.sofwerx.org/welder/?utm_medium=email&_hsmi=92354191&_hsenc=p2ANqtz-9Hw1Dqmgoinx4MPw3YnmUnaOT5gGMPX4qQOmtljHkyXflfv3nsbtln95_S7z_CH0oRPIjWsm-UC4KENx8RJJLsaRdQmCpWtruG82moKAhUPjYVyrE&utm_content=92354191&utm_source=hs_email

BETA.SAM.GOV Website:

https://beta.sam.gov/opp/ee9587bea59e4fef9993e9cc8cd3206d/view?keywords=%22socom%20weilding%20combat%22&sort=-relevance&index=&is_active=true&page=1

Closing Remarks